

Innovating Antibodies, Improving Lives

Investor Presentation

November 2021



Forward looking statement

This presentation contains forward looking statements. The words "believe", "expect", "anticipate", "intend" and "plan" and similar expressions identify forward looking statements. All statements other than statements of historical facts included in this presentation, including, without limitation, those regarding our financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to our products), are forward looking statements. Such forward looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding our present and future business strategies and the environment in which we will operate in the future. The important factors that could cause our actual results, performance or achievements to differ materially from those in the forward looking statements include, among others, risks associated with product discovery and development, uncertainties related to the

outcome of clinical trials, slower than expected rates of patient recruitment, unforeseen safety issues resulting from the administration of our products in patients, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate. The forward looking statements in this document speak only as at the date of this presentation. Genmab does not undertake any obligation to update or revise forward looking statements in this presentation nor to confirm such statements to reflect subsequent events or circumstances after the date made or in relation to actual results, unless required by law.



On the Road to 2025: Evolving Into a Fully Integrated Biotech

Core Purpose

To improve the lives of patients by creating & developing innovative antibody products

Our Strategy

- ✓ Focus on core competence
- ✓ Turn science into medicine
- ✓ Build a profitable & successful biotech

Vision

By 2025, our own product has transformed cancer treatment and we have a pipeline of knock-your-socks off antibodies









Consistent and solid track record



Innovative proprietary technologies and firstin-class / Best-in-class pipeline including Genmab's first approved medicine



Partnerships with innovators and industry leaders



Strong Financials to invest in growth opportunities



Consistent, Solid Track Record Fuels Our Growth:

Over 20 Years of Achievements

- 39 Cumulative INDs since 1999
- ✓ Innovative clinical pipeline: 6
 Genmab owned ≥50%
- ✓ First BLA submission

- √ 5 approved therapies that include Genmab's innovation
- ✓ First product on the market: TIVDAK™ (tisotumab vedotintftv)*
- ✓ 8 Years of profitability & expanding top line
- tivdak tisotumab vedotin-tftv for injection 40 mg

- Investing in our capabilities
- Experienced, international management team
- ✓ Dual-listed in US & DK

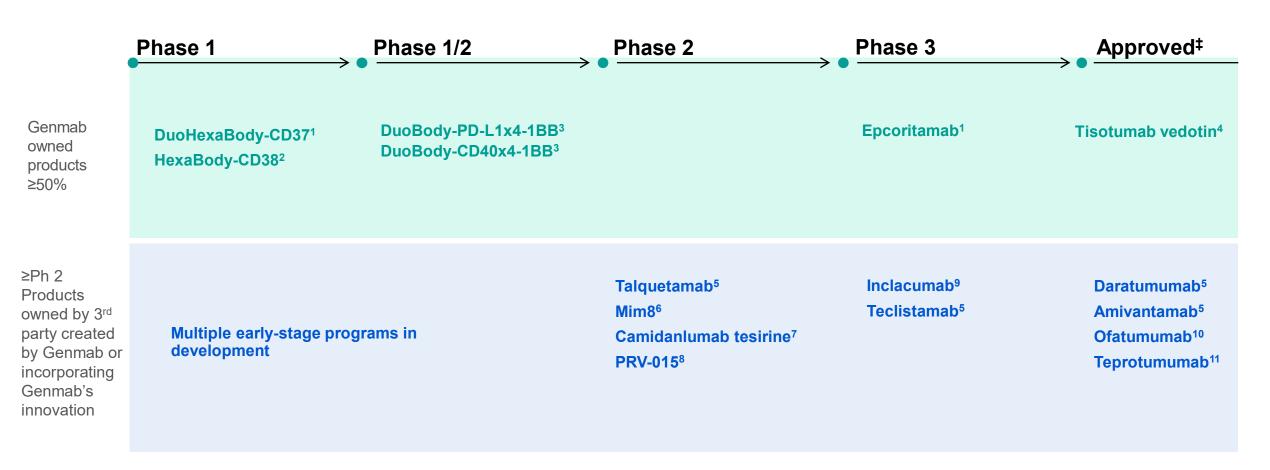


The Genmab Difference





Innovative Clinical Pipeline: Genmab Proprietary* and Partnered Products - Most Advanced Development Phase





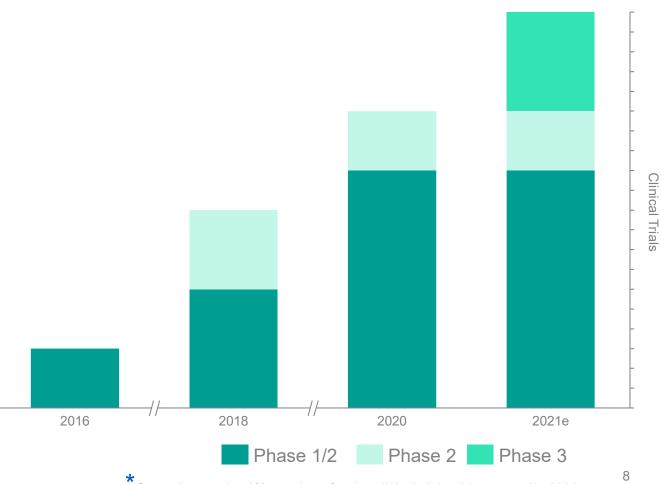
[‡]See local prescribing information for full indications / safety information

Investing in the Breadth & Depth of our Pipeline

R&D Engine: Our Technology Platforms

- DuoBody[®]
- HexaBody[®]
- DuoHexaBody®
- HexElect[®]

Expanding & maturing trials for our proprietary* assets





First Genmab Approved Therapy: TIVDAK™ (tisotumab vedotin-tftv) in Collaboration with Seagen

First-in-class

- Antibody–drug conjugate (ADC) directed against Tissue Factor (TF)
- U.S FDA approval: recurrent or metastatic cervical cancer with disease progression on or after chemotherapy*
- First and only approved ADC for treatment in this patient population
- Phase 3 study in Recurrent or Metastatic Cervical Cancer (innovaTV 301) recruiting

Very favorable efficacy with manageable safety profile

 Very favorable overall response in Phase 2 innovaTV 204 study vs. prior reported SoC, with manageable safety profile

Broad population in innovaTV 204 study

- Not restricted to biomarker selection
- Pre-treated as per current SoC
- Regardless of histology



In Phase 2 innovaTV 204 study, basis of U.S. FDA approval: Tisotumab vedotin demonstrated very favorable, durable responses and a manageable safety profile in 2L+ r/m cervical cancer patients



Epcoritamabin Collaboration with AbbVie

Novel MoA

Bispecific T cell engager [DuoBody]

Potential best-in-class

Potential for Improved efficacy & safety

Subcutaneous administration

 Enhanced convenience & ease of administration for HCPs & patients compared to IV infusion

Comprehensive development plan

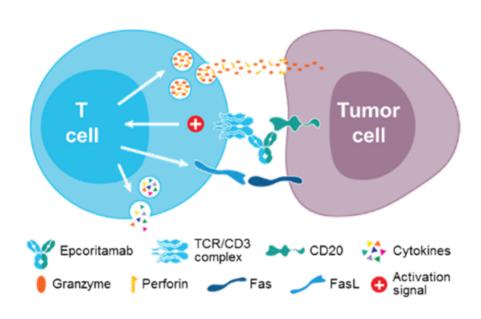
- Trials in several B-cell malignancies
- Trials across multiple lines of therapy
- Exploration as both monotherapy and in combination



Currently investigated in several clinical trials across B-cell NHL histologies / in various combinations: Phase 3 DLBCL; Phase 2 expansion part ongoing; Phase 1b exploring combinations with multiple SoC treatments



Epcoritamab: Potential Best-in-Class



Updated Data Presented at ESH 2021*

Novel, off-the-shelf therapy with convenient SubQ administration

- Phase 1/2 study (NCT03625037) in patients with relapsed, progressive or refractory B-cell lymphoma
- At RP2D of 48 mg, epcoritamab enabled more patients to achieve a response, including CR

Binds to distinct epitope

- Different from that of rituximab and obinutuzumab.
- Has potential to be partner of choice in combinations with SoC therapies containing rituximab

Favorable safety profile

- CRS events were Grade 1 and 2, resolved with SoC CRS mgmt. strategies
- No pts discontinued therapy due to treatment-related AEs

At median follow-up of 14.9 mos, epcoritamab continues to demonstrate encouraging single-agent activity and manageable safety profile

- Pts with R/R DLBCL receiving epcoritamab ≥12 mg (n=22), at a median follow-up of 11.1 mos, ORR was 68%; median DoR not reached and median PFS 9.1 mos
- Pts with R/R DLBCL receiving epcoritamab ≥48 mg (n=11), ORR was 91%; at a median follow-up of 11.1 months, median DoR was 9.2 mos and median PFS 11.8 mos
- Pts with R/R FL receiving epcoritamab
 ≥12 mg, at a median follow-up of 12.2 months, median DoR not reached



DuoBody-PD-L1x4-1BB (GEN1046) & DuoBody-CD40x4-1BB (GEN1042) in Collaboration with BioNTech

GEN1046

- First-in-class bispecific next generation checkpoint immunotherapy
- Designed to enhance T-cell and NK cell function through conditional 4-1BB co-stimulation
- Simultaneously blocking the PD-L1 axis
- Enhances proliferation and cytokine production of activated T-cells
- Activates immune cells in the tumor-draining lymph nodes
- Induces tumor regression in vivo.



GEN1042

- First-in-class bispecific antibody
- Designed to conditionally activate both CD40expressing antigenpresenting cells (APC) and 4-1BB-expressing T cells
- Conditionally activates T cells and APC in the presence of CD40-expressing cells









DuoHexaBody-CD37

- Combination of DuoBody & HexaBody platforms
- Novel target for hematological malignancies
- Unique MoA
- Dose escalation ongoing
- 50:50 co-development with AbbVie



HexaBody-CD38

- Incorporates proprietary HexaBody technology
- Highly promising data pre-clinical models for MM, lymphoma & AML
- Could potentially add to and broaden DARZALEX franchise
- Dose escalation ongoing
- Developing in exclusive worldwide license and option agreement with Janssen



Approved Antibody Therapeutics Incorporating Genmab's Innovation



Janssen Biotech, Inc: DARZALEX® (daratumumab) / DARZALEX FASPRO® (daratumumab and hyaluronidase-fihj)

Redefining Treatment of Multiple Myeloma (MM)*

- Subcutaneous daratumumab

 first and only SC CD38 mAb
 approved for treatment of

 MM & AL amyloidosis*
- Genmab entitled to tiered royalty of 12-20% of net sales



Novartis AG: Kesimpta® (ofatumumab)

Approved in U.S., EU & Japan in relapsing multiple sclerosis (RMS)*

- First B-cell therapy that can be self-administered by patients at home using Sensoready[®] autoinjector pen
- Genmab entitled to royalty of 10% of net sales



Horizon Therapeutics: TEPEZZA® (teprotumumab-trbw)

Approved in U.S. in thyroid eye disease (TED)*

- First and only U.S. FDAapproved medicine for treatment of TED
- Genmab entitled to mid single digit royalty of net sales



Janssen Biotech Inc: RYBREVANT® (amivantamabvmjw)

Approved in U.S. for patients with locally advanced or metastatic NSCLC with EGFR Exon 20 insertion mutations*

- First regulatory approval for a product created using Genmab's DuoBody® technology platform
- Genmab entitled to royalties on net sales



Building Our Capabilities





Track record of success and investing for tomorrow

- State-of-the-art facilities
- Novel technologies and formats
- External innovation



Scaling up to expand from early to late stage

- Clinical development & operations
- Disease area expertise
- Medical Affairs, Safety and Regulatory



Commercialization

Step change in our business

- Leadership team in place
- Focus on U.S. & Japan
- Building expanded team

Enabling functions to support growth & manage risk

Data Sciences to drive insights



2021 Guidance: Recurring Revenue Growth and Focused Investments

Key Figures	DKKM	~USDM*
Revenue	7,900 – 8,500	1,317 – 1,417
Operating Expenses	(5,300) – (5,600)	(884) – (934)
Operating Income	2,300 – 3,200	383 - 533

DARZALEX royalties of ~DKK 5.8B to ~DKK 6.2B to drive significant recurring revenue growth

Operating expenses continue to be driven by expanding and accelerating our clinical pipeline and broadening organizational capabilities

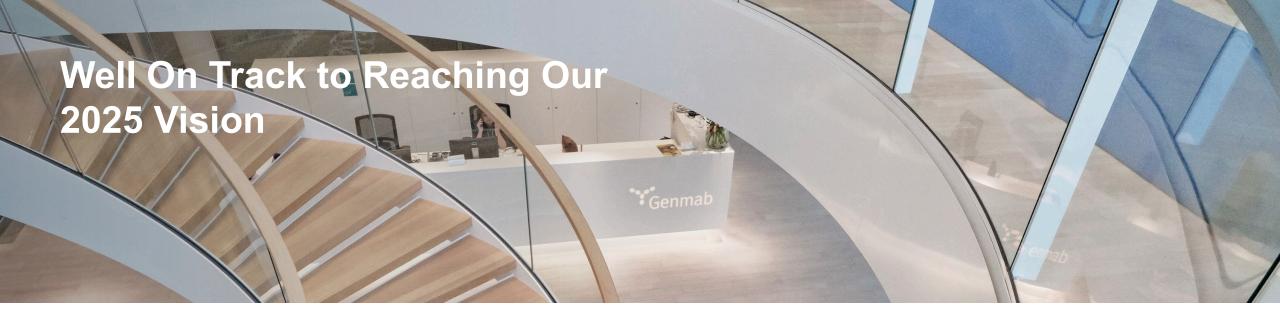
Significant underlying profitability

Key 2021 Priorities: Build a Strong Differentiated Product Pipeline & Bring Own Medicines to Market

Priority	✓	Targeted Milestones
	✓	» Tisotumab vedotin – U.S. FDA decision on BLA and progress to market
Bring our own medicines to patients	X*	» Tisotumab vedotin – JNDA submission in cervical cancer
patients		» Epcoritamab – acceleration & maximization of development program by advancing expansion cohorts and initiating additional Phase 3 trials
		» DuoBody-PD-L1x4-1BB – expansion cohort data
Build world-class differentiated		» DuoBody-CD40x4-1BB – dose escalation data
product pipeline	\checkmark	» Tisotumab vedotin – data in other tumor indication
		» Earlier stage products – progress & expand innovative product pipeline
Become leading integrated innovation	✓	» Operational commercialization model in US & Japan
powerhouse		» Further strengthen solid financial foundation

^{*}Potential JNDA filing timeline postponed to include Phase 3 innovaTV 301 data





Successful track record

Strategy

Focus Areas

- Focus on core competence
- Turn science into medicine
- Build a profitable and successful biotech

Progress

Sustained Execution

2025 Vision

By 2025, our own product has transformed cancer treatment and we have a pipeline of knock-your-socks-off antibodies

Building fully integrated biotech innovation powerhouse

Genmab profile today



1 approved therapy and 1 potential nearterm Genmab owned product launch



Imperative to invest



Remain focused and disciplined



Appendix



A Leading International Biotech With Large Free Float

- Ordinary shares: Nasdaq Copenhagen, DK
- ADSs: Nasdaq Global Select USA
- Shares world-wide incl: US, DK, NL, UK
- Market Cap:
 - ~ DKK 200bn
 - ~ USD 31bn
- Shares outstanding: ~66M



Successful Network of Collaborations: Broadening Differentiated Antibody Pipeline & Supporting Our Vision

Discovery / Academic Collaborations



















Technology Collaborations















Product Partnerships & Collaborations



























Genmab's Commitment to Society: Building a Socially Responsible & Sustainable Company



Anchored in our Core Purpose, Values & Vision



Focused on four main areas to guide our programs



Commitment to UNSDG and Aligned to ESG Priorities

- To improve the lives of patients by creating and developing innovative antibody products
- By 2025 our own product has transformed cancer treatment and we have a pipeline of knock-your-socks-off antibodies

- Science-Driven Health Innovations
- Employee Well-Being & Vitality
- Ethics & Transparency
- Environment & Community Sustainability

- Ensures that Genmab carries out CSR activities effectively & communicates clearly and openly
- Focus on Environment, Society and Governance reporting



Innovation Powerhouse:

Cutting Edge Proprietary Technologies

Technology		Principle	Applications
DuoBody®	8	Bispecific antibodies	Dual targeting
HexaBody [®]	3000	Target-mediated enhanced hexamerization	Enhanced potency
DuoHexaBody [®]	3000 30000 30000	Bispecific antibodies with target- mediated enhanced hexamerization	Dual targeting + enhanced potency
HexElect®		Two co-dependent antibodies with target-mediated enhanced hexamerization	Dual targeting + enhanced potency & selectivity



Innovative Pipeline: Genmab's Proprietary¹ Products

Product	Target	Target Developed By	Disease Indications	Most Advance	d Developm	opment Phase				
				Pre-Clinical	1	1/2	2	3	Approved	
TIVDAK (tisotumab vedotintftv)	TF	Co-development Genmab / Seagen	Cervical cancer ²						✓	
Tisotumab vedotin			Ovarian cancer							
			Solid tumors							
Epcoritamab	CD3, CD20	Co-development Genmab / AbbVie	Relapsed/refractory DLBCL							
		GGas, 7, 122 116	B-cell NHL							
			B-cell NHL (combo)							
			Relapsed/refractory CLI	_						
DuoBody-PD-L1x4-1BB (GEN1046)	PD-L1, 4-1BB	Co-development Genmab / BioNTech	Solid tumors							
DuoBody-CD40x4-1BB (GEN1042)	CD40, 4-1BB	Co-development Genmab / BioNTech	Solid tumors							
DuoHexaBody-CD37 (GEN3009)	CD37	Co-development Genmab / AbbVie	Hematologic malignancies							
HexaBody-CD38 (GEN3014)	CD38	Genmab ³	Hematologic malignancies							

Approved Medicines Incorporating Genmab InnovationIncluding Proposed Label Expansions for Marketed Products

Product	Developed & Marketed By	Disease Indications	Most Advanced Development Phase					
			Pre-Clinical	1	1/2	2	3	Approved
DARZALEX (daratumumab) & DARZALEX FASPRO (daratumumab and	Janssen Biotech Inc. (Tiered royalties to Genmab on net global sales)	Multiple myeloma [*]						✓
hyaluronidase-fihj)		AL Amyloidosis*						√
Daratumumab		Non-MM blood cancers						
Kesimpta (ofatumumab)	Novartis (Royalties to Genmab on net global sales)	Relapsing multiple sclerosis*						✓
TEPEZZA (teprotumumab- trbw)	Horizon Therapeutics (under sublicense from Roche, royalties to Genmab on net global sales)	Thyroid eye disease*						✓
RYBREVANT (amivantamab- vmjw)	Janssen (Royalties to Genmab on net sales)	Non-small cell lung cancer*						✓
Amivantamab		Advanced or metastatic gastric or esophageal cancer						

≥Phase 2 Clinical-stage Programs Incorporating Genmab's Innovation

Product	Technology	Developed By	Disease Indications	Most Advanced Development Phase						
				Pre-Clinical	1	1/2	2	3	Approved	
Inclacumab	UltiMAb ^{®*}	Global Blood Therapeutics	VOC in sickle cell disease							
Teclistamab (JNJ-64007957)	DuoBody	Janssen	Relapsed or refractory MM							
Talquetamab (JNJ-64407564)	DuoBody	Janssen	Relapsed or refractory MM							
Camidanlumab tesirine (ADCT-301)	UltiMAb	ADC Therapeutics	Relapsed /Refractory Hodgkin Lymphoma							
Mim8	DuoBody	Novo Nordisk	Healthy volunteers & hemophilia A							
PRV-015 (AMG 714)	UltiMAb	Provention Bio	Celiac disease							

Tisotumab Vedotin in Cervical Cancer

Designed to Address a High Unmet Medical Need

Recurrent or metastatic cervical cancer

- Poor prognosis advanced / recurrent cervical cancer
 - RR standard therapies generally <15%
 - Median OS 6-8 months
- Data ORR & survival after progression on 1L bevacizumab + doublet chemotherapy are limited

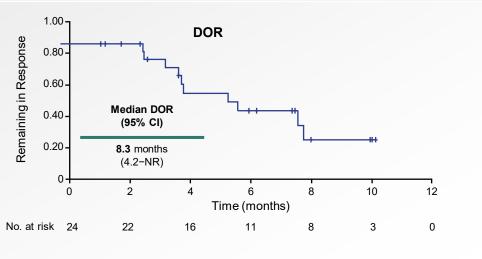
Conclusions*

(previously treated recurrent or metastatic cervical cancer)

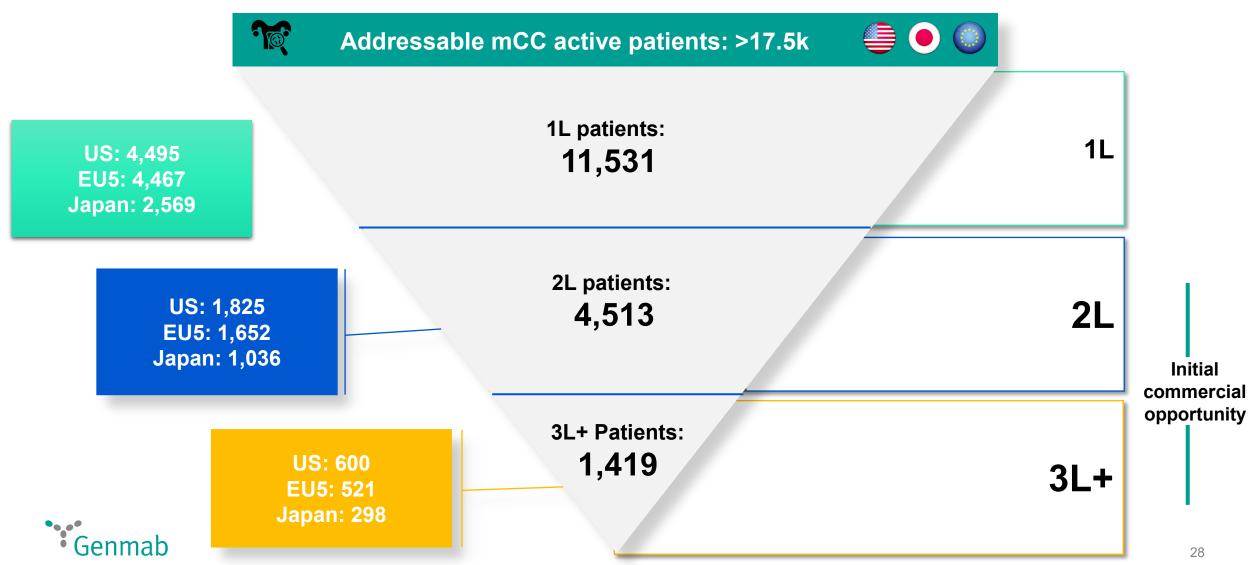
- Compelling and durable antitumor activity with manageable and tolerable safety profile
- ORR 24%; CR: 7%
- Median DOR 8.3 mo
- Median PFS (4.2 mo) and OS (12.1 mo) encouraging

Clinically meaningful and durable responses observed*

	N=101
Confirmed ORR (95% CI), ^a %	24 (15.9-33.3)
CR, n (%)	7 (7)
PR, n (%)	17 (17)
SD, n (%)	49 (49)
PD, n (%)	24 (24)
Not evaluable, n (%)	4 (4)



Over 17k Patients Treated for Metastatic Cervical Cancer (mCC) in US, EU5 and Japan



Our Goal in Cervical Cancer: Establish Tisotumab Vedotin as the Clear Choice in 2L+ Settings

mCC Treatment Landscape

1L

Chemotherapy +/- Bevacizumab*

2L

Pembro**, Other IO, or Chemo



~50% PD-L1-



All Patient Types



Genmab

Pembrolizumab or Chemotherapy

~50% PD-L1+



Source: Kantar Treatment Architecture: Cervical Cancer; NCCN Treatment Guidelines; 2020 TV ATU (Strategic Research Insights)

Positive Perception of Next-Gen CD3xCD20 Bispecifics & Potential to Transform B-cell Malignancy Treatment

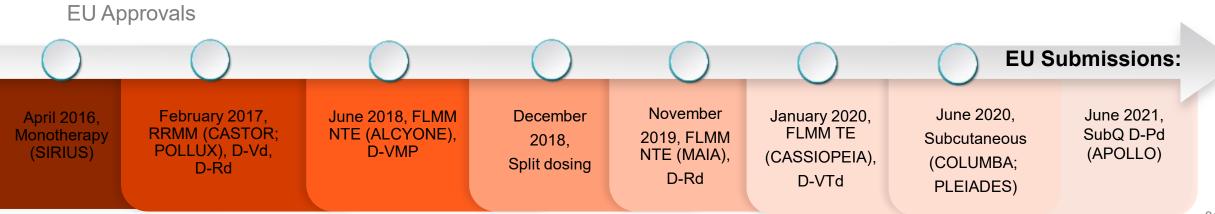
B-NHL Type	Intervention	Study Phase
		Preclinical I I/II II III
DLBCL, FL, MCL and other histologies		
Front-line		
DLBCL	Epcoritamab + R-CHOP	GCT3013-02 (Ph lb)
FL	Epcoritamab + BR	GCT3013-02 (Ph lb)
Relapsed or refractory		
DLBCL	Epcoritamab vs SOC	GCT3013-05 (Ph III)
B-NHL (DLBCL, FL, MCL)	Epcoritamab monotherapy	GCT3013-01 (Ph I/II)
B-NHL (Japanese patients)	Epcoritamab monotherapy	GCT3013-04 (Ph I/II)
ASCT eligible DLBCL	Epcoritamab + R-DHAX/C	GCT3013-02 (Ph lb)
DLBCL	Epcoritamab + GemOx	GCT3013-02 (Ph lb)
FL	Epcoritamab + R ²	GCT3013-02 (Ph lb)
CLL		
Relapsed or refractory	Epcoritamab monotherapy	GCT3013-03 (Ph lb)

DARZALEX Approvals: US and EU

On Track for Approval Across All Lines of MM Treatment

US Approvals





Ongoing Daratumumab Clinical Trials Janssen Sponsored Phase 3 & 4

Daratumumab Trials Sponsored by Pharma / Biotech

Ct.gov Identifier	Phase	Sponsor	Indication	Therapy
NCT03768960	4	J&J Private Ltd	Relapsed or Refractory MM	Daratumumab (MMY4008)
NCT02252172	3	Janssen	Untreated MM	Daratumumab + Rd (MAIA)
NCT02195479	3	Janssen	Untreated MM	Daratumumab + VMP (ALCYONE)
NCT02541383	3	Janssen	Untreated MM	Daratumumab + VTd (CASSIOPEIA)
NCT02076009	3	Janssen	Relapsed or Refractory MM	Daratumumab + Rd (POLLUX)
NCT02136134	3	Janssen	Relapsed or Refractory MM	Daratumumab + Vd (CASTOR)
NCT03180736	3	Janssen	Relapsed or Refractory MM	Daratumumab + Pom-d (APOLLO)
NCT03201965	3	Janssen	Amyloidosis	Daratumumab + CyBorD (ANDROMEDA)
NCT03217812	3	Janssen	Untreated MM	Daratumumab + VMP (Asia Pacific) (OCTANS)
NCT03234972	3	Janssen	Relapsed or Refractory MM	Daratumumab + Vd vs Vd (LEPUS)
NCT03277105	3	Janssen	Relapsed or Refractory MM	Daratumumab SubQ vs IV (COLUMBA)
NCT03301220	3	Janssen	Smoldering MM	Daratumumab SubQ (AQUILA)
NCT03652064	3	Janssen	Untreated MM	Daratumumab + VRd (CEPHEUS)
NCT03710603	3	Janssen/EMN	Untreated MM	Daratumumab + VRd (PERSEUS)
NCT03901963	3	Janssen	Untreated MM / Maintenance	Daratumumab + R (AURIGA)

