



Product name
DINUTUXIMAB



Catalog number
DIX08251

Product description

DINUTUXIMAB: is a chimeric monoclonal IgG1 (mouse/human) against GD2. It is composed of the variable heavy chain and light chain regions of the murine anti-GD2 monoclonal antibody and the constant regions of human IgG1 heavy chain and kappa light chain.

mAb sequence

Heavy chain

>Dinutuximab_HC

EVQLQSGPELEKPGASVMISCKASGSSFTGYNMNWWVRQNIKGSLEWIGAIIDPYGGTSYNQKFKGRATLTVDKSSSTAYMHLKSLTSEDSAVYYCVSGMEYWGGQTSVTSSA
STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELL
GGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYT
LPDSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

Light Chain

>Dinutuximab_LC

EIVMTQSPATLSVSPGERATLSCRSSQSLVHRNGNTYLHWYLPKPGQSPKLLIHKVSNRFGVDPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPPLTFGAGTKLELKRTVA
APSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSSTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Product features and protocols

Key features

- 1** Purity >90%
as determined by SDS-PAGE
- 2** Labelling Arg-¹³C₆, ¹⁵N₄ | Lys-¹³C₆, ¹⁵N₂
- 3** Isotopic incorporation >98%
as determined by LC-MS/MS analysis of digested SIL-mAb

Other features

Expression System	CHO cell line
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	20 mM histidine sucrose 5% polysorbate 20 0.01% pH 5.5 – 6.5

Product preparation

For product preparation we recommend the following steps:

- Briefly centrifuge the tube before opening
- Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg)
- Vortex gently to insure complete dissolution
- Wait 15 minutes at Room temperature before proceeding further
- Vortex gently again and centrifuge briefly

Product storage

The product is lyophilized and shipped at room temperature. **Store at -80 °C upon receipt.**

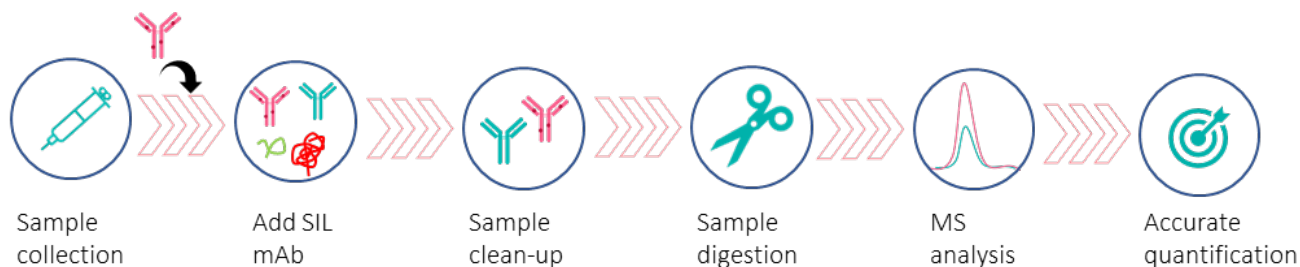
After reconstitution, the protein can be preserved at 4 °C for a few weeks.

Avoid multiple freeze-thaw cycles

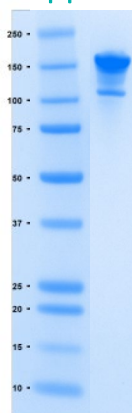
How to use our product



SIL mAbs allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information



SDS-PAGE gel analysis of **DINUTUXIMAB** protein in non-reducing/ non heated conditions (NR/NH)
Stained with Coomassie blue

References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363



The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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Promise Proteomics	DATA SHEET	DINUTUXIMAB DIX08251
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	Name Surname	Position	Date	Signature
Writing and approval	Wilfried Bardet	Bioproduction Project Manager	19DEC2024	

Version	Application date	Modifications history
01	25JUN2024	Creation
02	19DEC2024	Update incorporation isotopic and SDS value