



# CERTIFICATE OF ANALYSIS

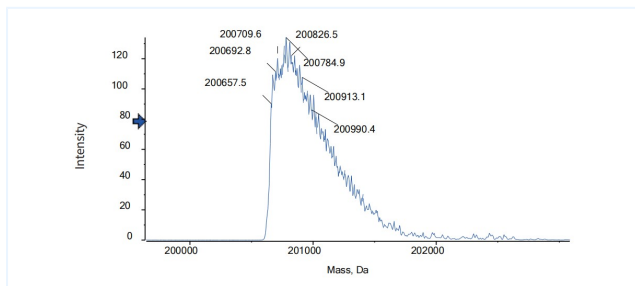


## Product Details

Product name:	Anti-CD3 & GD2 Reference Antibody (Nivatrotamab)	Lot.No.:	P264375C
Target:	CD3, GD2	Catalog:	CHBA064
Target Accession:	P07766 & NA	Concentration :	1 mg/mL
Clonality:	Bispecific	Isotype:	IgG-scFv
Reactivity:	Human	Molecular Weight (kDa) :	200.96 kDa
Application:	Kinetics (SPR), ELISA, Bioactivity: FACS, Functional assay, Research in vivo	Endotoxin:	<1 EU/mg
Formulation:	Liquid: 100mM Pro-Ac, 20mM Arg pH 5.0   Lyophilization: 25mM histidine, 8% sucrose, 0.01% Tween80 pH6.2	Conjugation:	Unconjugated
Reconstitution:	For Powder, reconstitute with sterile, distilled water to a final concentration of 1 mg/ml. Gently shake to solubilize completely. Do not vortex.	Expression System:	CHO
Storage:	Upon receipt, store immediately at -20°C or lower for 24 months. Store aliquots at -80°C for up to 3 months. Avoid repeated freeze-thaw cycles.	Purification:	Protein A

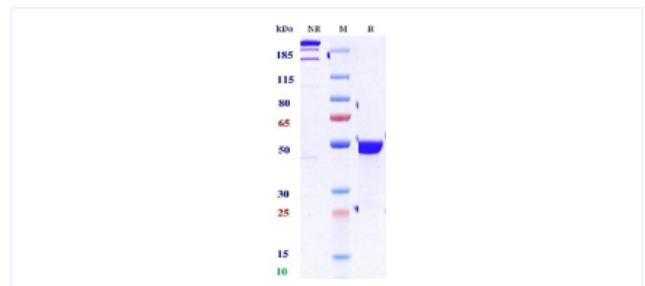
# Data

## MASS



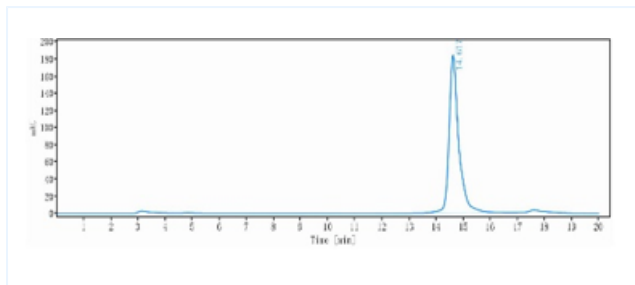
The detected molecular weight of Anti-CD3 & GD2 Reference Antibody (Nivatrotamab) is 200.83 kDa.

## Purity: SDS-PAGE



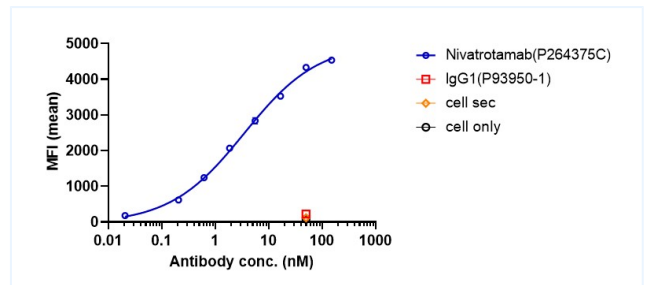
Anti-CD3 & GD2 Reference Antibody (Nivatrotamab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

## Purity: SEC-HPLC



The purity of Anti-CD3 & GD2 Reference Antibody (Nivatrotamab) is 100.00%, determined by SEC-HPLC.

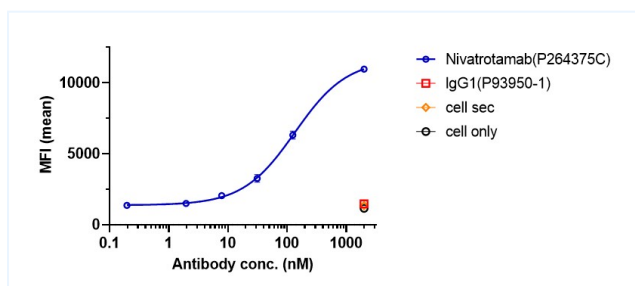
## Bioactivity: FACS



Nivatrotamab bound to huCD3e-jurkat cells, and then rebounded to fluorescent secondary antibodies (Anti-human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Nivatrotamab bound to huCD3e-jurkat cells, and the EC50 was 3.481 nM.

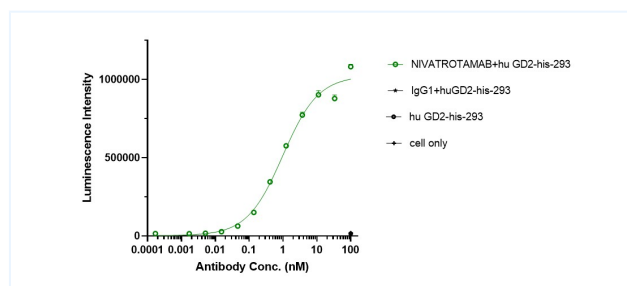
The products are for research use only. Not for use in diagnostic procedures.

## Bioactivity: FACS



Nivatrotamab bound to hu GD2-293 cells, and then rebounded to fluorescent secondary antibodies(Anti-human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Nivatrotamab bound to hu GD2-293 cells, and the EC50 was 68.100 nM.

## Function: Luciferase



Co-incubation of Nivatrotamab with Jurkat cells, then with the addition of hu GD2-his-293 cells for 6 hours. Bright-Lite was used to detect the fluorescent signal. As shown in fig, Nivatrotamab was able to activate the NF-AT signaling pathway, and the EC50 was 0.979 nM.

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