



# CERTIFICATE OF ANALYSIS

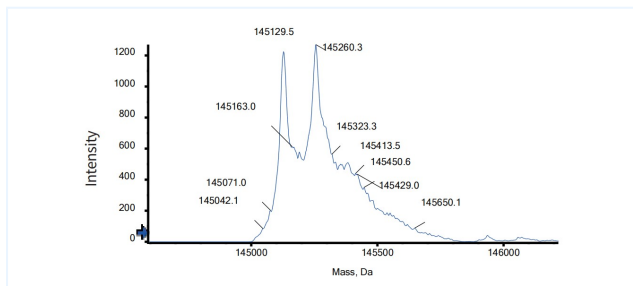


## Product Details

Product name:	Anti-4-1BB & CD40 Reference Antibody (Gen1042)	Lot.No.:	P268001- P268002
Target:	TNFRSF9 / 4-1BB / CD137, TNFRSF5 / CD40	Catalog:	CHBA034
Target Accession:	Q07011 & P25942	Concentration :	1 mg/mL
Clonality:	Bispecific	Isotype:	IgG-like
Reactivity:	Human	Molecular Weight (kDa) :	145.37 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

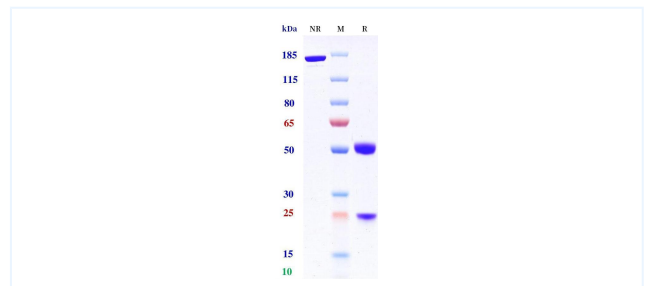
# Data

## MASS



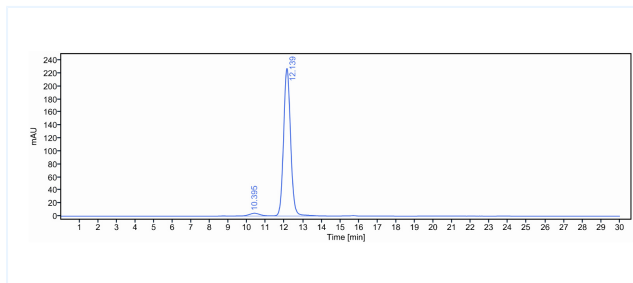
The detected molecular weight of Anti-4-1BB & CD40 Reference Antibody (Gen1042) is 145.26 kDa.

## Purity: SDS-PAGE



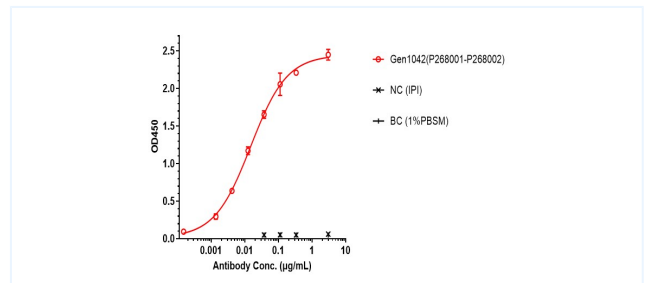
Anti-4-1BB & CD40 Reference Antibody (Gen1042) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

## Purity: SEC-HPLC



The purity of Anti-4-1BB & CD40 Reference Antibody (Gen1042) is 96.80%, determined by SEC-HPLC.

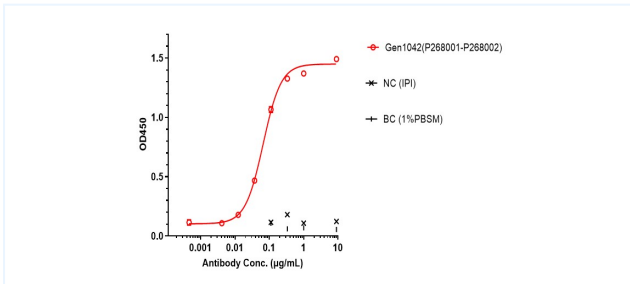
## ELISA



Gen1042 bound to 4-1BB protein, and then rebounded to secondary antibodies (Anti-Human-IgG-Fc-HRP), and read OD450. As shown in fig, Gen1042 bound to hu-4-1BB-His, and the EC50 was 0.015 nM.

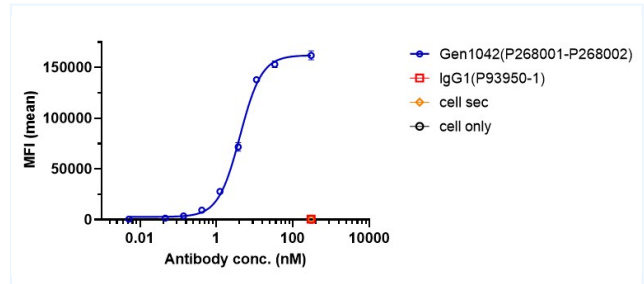
The products are for research use only. Not for use in diagnostic procedures.

## ELISA



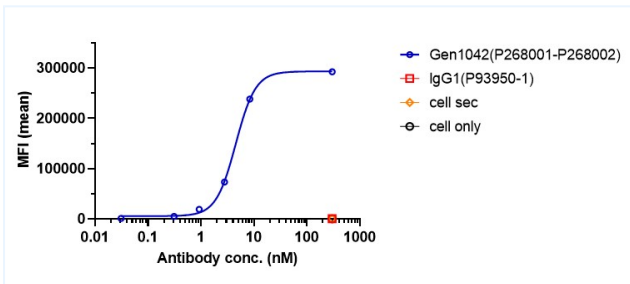
Gen1042 bound to CD40 protein, and then rebounded to secondary antibodies(Anti-Human-IgG-Fc-HRP), and read OD450. As shown in fig, Gen1042 bound to hu-CD40-His, and the EC50 was 0.066 nM.

## Bioactivity: FACS



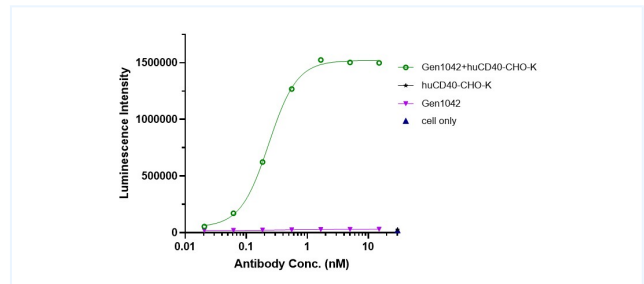
Gen1042 bound to hu4-1BB-CHO-K cells, and then rebounded to fluorescent secondary antibodies(Anti-Human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Gen1042 bound to hu4-1BB-CHO-K cells, and the EC50 was 4.119 nM.

## Bioactivity: FACS



Gen1042 bound to huCD40-CHO-K cells, and then rebounded to fluorescent secondary antibodies(Anti-Human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Gen1042 bound to huCD40-CHO-K cells, and the EC50 was 4.535 nM.

## Function: Luciferase



Co-incubation of Gen1042 with 4-1BB-NF-κB-Jurkat cells, then with the addition of huCD40-CHO-K cells for 6 hours. Bright-Lite was used to detect the fluorescent signal. As shown in fig, Gen1042 was able to activate the NF-κB signaling pathway, and the EC50 was 0.234 nM.

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