



# CERTIFICATE OF ANALYSIS

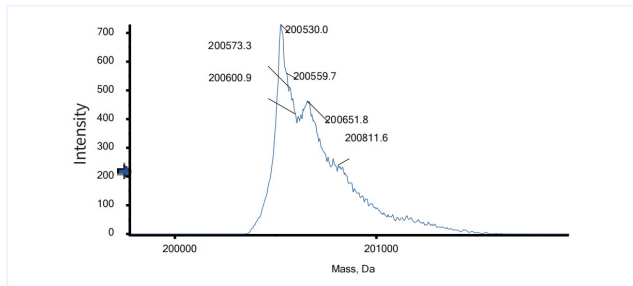


## Product Details

Product name:	Anti-4-1BB & HER2/neu Reference Antibody (Yh32367)	Lot.No.:	P268011C
Target:	ERBB2 / HER2 / CD340, TNFRSF9 / 4-1BB / CD137	Catalog:	CHBA039
Target Accession:	Q07011 & P04626	Concentration :	1 mg/mL
Clonality:	Bispecific	Isotype:	IgG-scFv
Reactivity:	Human	Molecular Weight (kDa) :	200.52 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

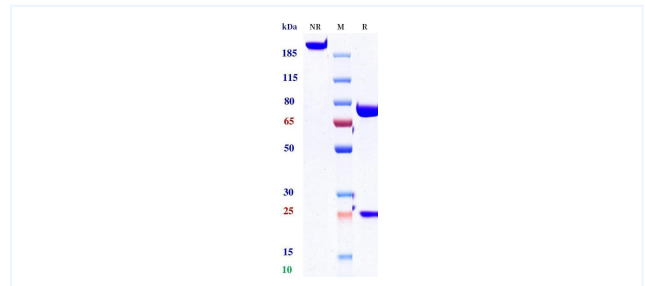
# Data

## MASS



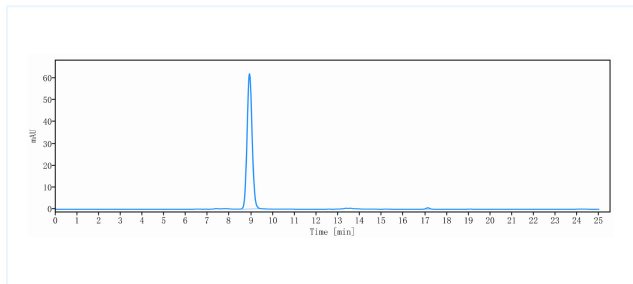
The detected molecular weight of Anti-4-1BB & HER2/neu Reference Antibody (Yh32367) is 200.53 kDa.

## Purity: SDS-PAGE



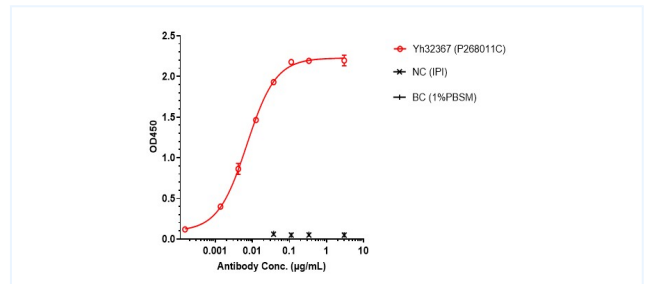
Anti-4-1BB & HER2/neu Reference Antibody (Yh32367) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

## Purity: SEC-HPLC



The purity of Anti-4-1BB & HER2/neu Reference Antibody (Yh32367) is 98.99%, determined by SEC-HPLC.

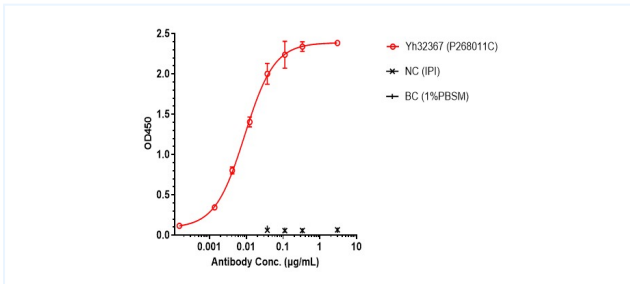
## ELISA



Yh32367 bound to 4-1BB protein, and then rebounded to secondary antibodies(Anti-Human-IgG-Fc-HRP), and read OD450. As shown in fig, Yh32367 bound to hu-4-1BB-His, and the EC50 was 0.007 nM.

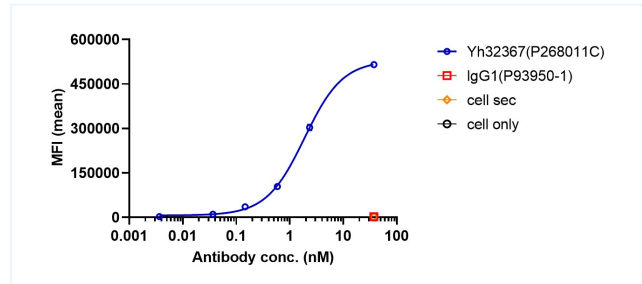
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## ELISA



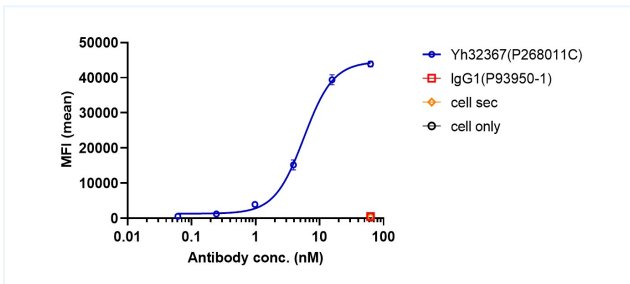
Yh32367 bound to Her2 protein, and then rebounded to secondary antibodies(Anti-Human-IgG-Fc-HRP), and read OD450. As shown in fig, Yh32367 bound to hu-Her2-His, and the EC50 was 0.009 nM.

## Bioactivity: FACS



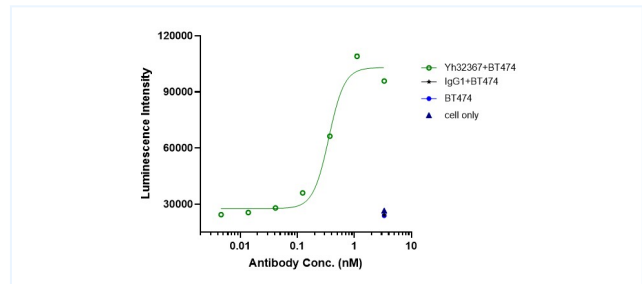
Yh32367 bound to BT474 cells, and then rebounded to fluorescent secondary antibodies(Anti-Human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Yh32367 bound to BT474 cells, and the EC50 was 1.889 nM.

## Bioactivity: FACS



Yh32367 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, Yh32367 bound to hu4-1BB-CHO-K cells, and the EC50 was 5.701 nM.

## Function: Luciferase



Yh32367 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, Yh32367 bound to hu4-1BB-CHO-K cells, and the EC50 was 5.701 nM.

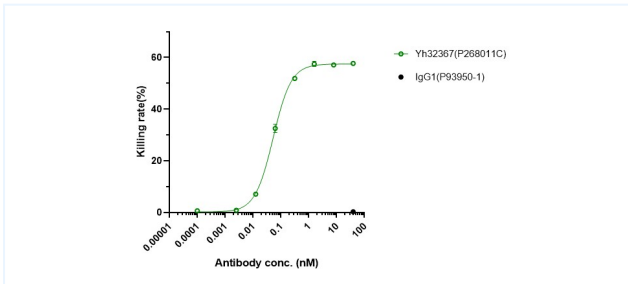
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Function: ADCC



Co-incubation of Yh32367 with BT474 cell and PBMCs for 4 hours, then LDH was detected to evaluate the ADCC activity of Yh32367. As shown in fig, Yh32367 has ADCC activity, and the IC50 was 0.054 nM.

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