



# CERTIFICATE OF ANALYSIS

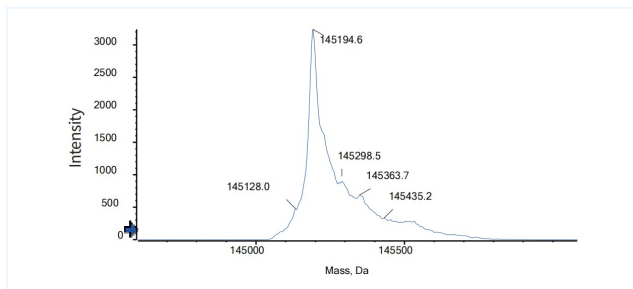


## Product Details

Product name:	Anti-HER2/neu & HER3 Reference Antibody (Zenocutuzumab)	Lot.No.:	P264372C1
Target:	ERBB2 / HER2 / CD340, ERBB3 / HER3	Catalog:	CHBA070
Target Accession:	P04626 & P21860	Concentration :	1 mg/mL
Clonality:	Bispecific	Isotype:	IgG-like
Reactivity:	Human	Molecular Weight (kDa) :	145.88 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

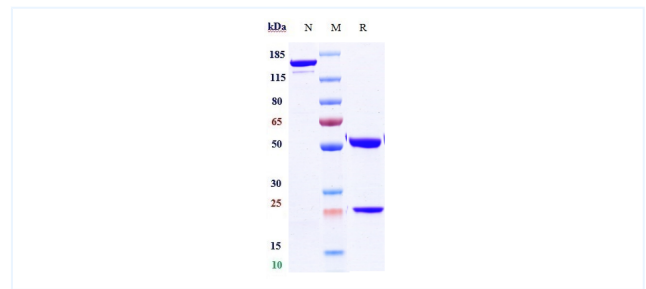
# Data

## MASS



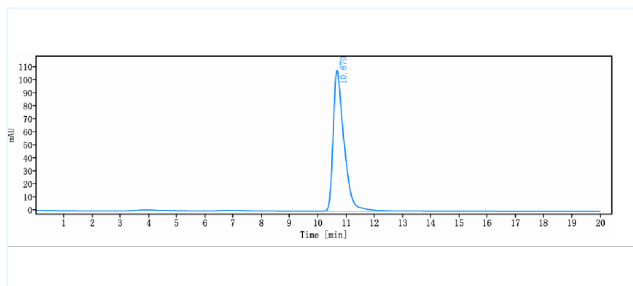
The detected molecular weight of Anti-HER2 & HER3 Reference Antibody (Zenocutuzumab) is 145.20 kDa.

## Purity: SDS-PAGE



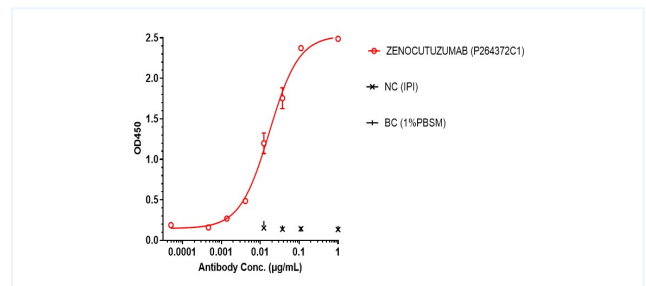
Anti-HER2/neu & HER3 Reference Antibody (Zenocutuzumab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

## Purity: SEC-HPLC



The purity of Anti-HER2/neu & HER3 Reference Antibody (Zenocutuzumab) is 100.00%, determined by SEC-HPLC.

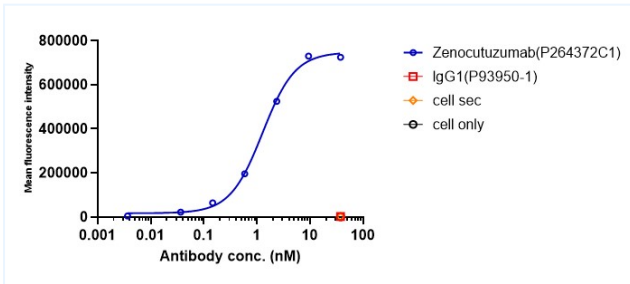
## ELISA



Zenocutuzumab bound to HER2 protein, and then rebounded to secondary antibodies (Anti-human-IgG-Fc-HRP), and read OD450. As shown in fig, Zenocutuzumab bound to hu-HER2-his, and the EC50 was 0.017 nM.

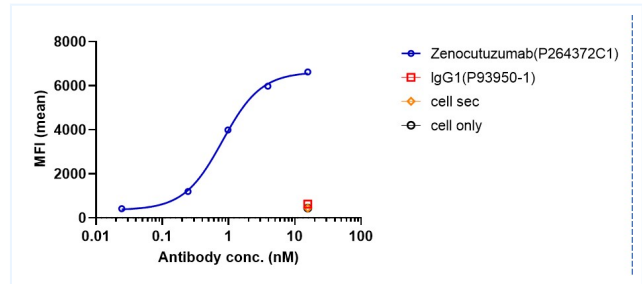
The products are for research use only. Not for use in diagnostic procedures.

## Bioactivity: FACS



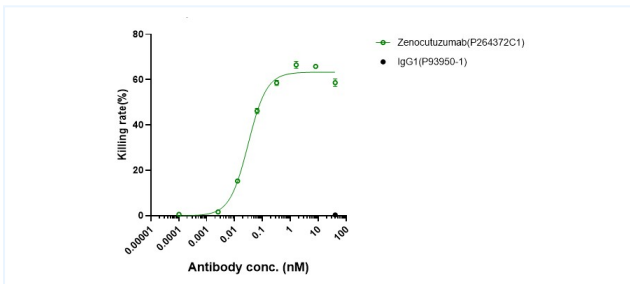
Zenocutuzumab bound to BT474 cells, and then rebounded to fluorescent secondary antibodies(Anti-human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Zenocutuzumab bound to BT474 cells, and the EC50 was 1.277 nM.

## Bioactivity: FACS



Zenocutuzumab bound to Hu-HER3-FL-HEK293 cells, and then rebounded to fluorescent secondary antibodies(Anti-Human IgG, Fcy PE), and test by flow cytometry. As shown in fig, Zenocutuzumab bound to Hu-HER3-FL-HEK293 cells, and the EC50 was 0.879 nM.

## Function: ADCC



Co-incubation of Zenocutuzumab with BT474 cell and PBMCs for 4 hours, then LDH was detected to evaluate the ADCC activity of Zenocutuzumab. As shown in fig, Zenocutuzumab has ADCC activity, and the IC50 was 0.031 nM.

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