



# CERTIFICATE OF ANALYSIS

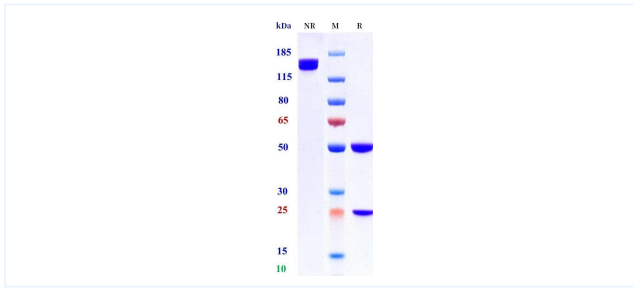


## Product Details

Product name:	Anti-TNFRSF9 / 4-1BB / CD137 Reference Antibody (CTX-471)	Lot.No.:	P100640
Target:	TNFRSF9 / 4-1BB / CD137	Catalog:	CHB309
Target Accession:	Q07011	Concentration :	1 mg/mL
Clonality:	Monoclonal	Isotype:	IgG4SP
Reactivity:	Human	Molecular Weight (kDa) :	146.06
Application:	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

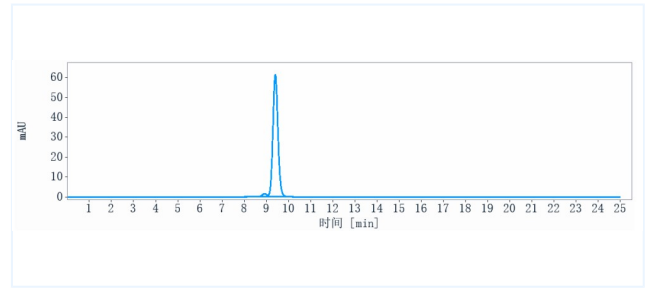
## Data

### Purity:SDS-PAGE



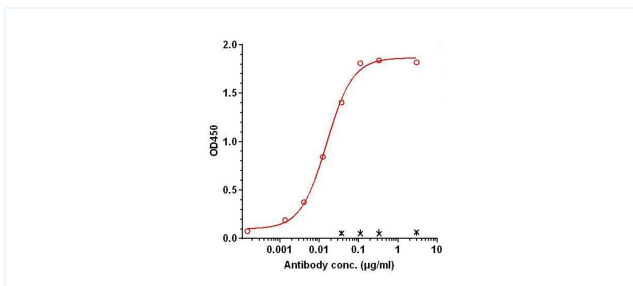
Anti-TNFRSF9 / 4-1BB / CD137 Reference Antibody (CTX-471) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

### Purity:SEC-HPLC



The purity of Anti-TNFRSF9 / 4-1BB / CD137 Reference Antibody (CTX-471) is 100%, determined by SEC-HPLC.

### Bioactivity: ELISA



Immobilized PHA259 Human TNFRSF9 / 4-1BB / CD137, His Tag at 2 µg/mL can bind CTX-471, EC<sub>50</sub>= 0.01555 µg/mL.

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