# CERTIFICATE OF ANALYSIS

## Product Details

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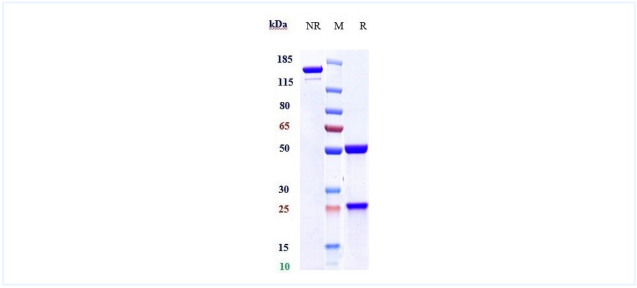
|---|---|---|---|
| Product name: | Anti-Mesothelin Reference Antibody (amatuximab) | Lot.No.: | P221429 |
| Target: | Mesothelin | Catalog: | CHA298 |
| Target Accession: | Q13421 | Concentration : | 1 mg/mL |
| Clonality: | Monoclonal | Isotype: | IgG1 |
| Reactivity: | Human | Molecular Weight (kDa) : | 144.32 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 <br/> 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: | -80°C for 2 years under sterile conditions； -20°C for 1 year under sterile conditions； Avoid repeated freeze-thaw cycles. | Purification: | Protein A |

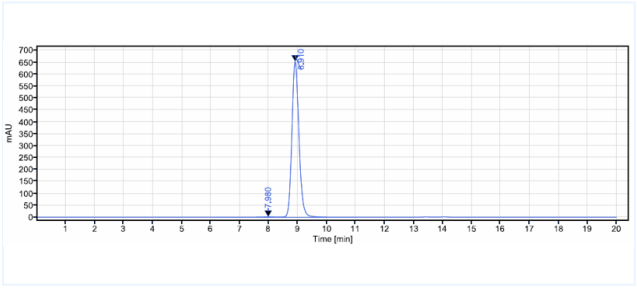
## Data

## Purity: SDS-PAGE



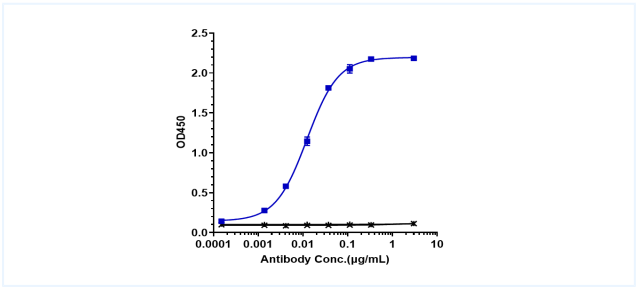

Anti-Mesothelin Reference Antibody (amatuximab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

## Purity: SEC-HPLC



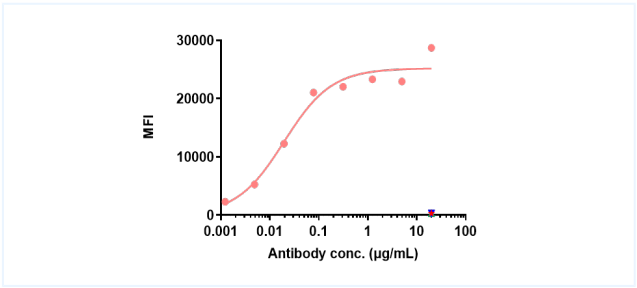

The purity of Anti-Mesothelin Reference Antibody (amatuximab) is 99.47%, determined by SEC-HPLC.

## Bioactivity: ELISA




Immobilized human Mesothelin His at 2 ug/mL can bind Anti-Mesothelin Reference Antibody (amatuximab), EC50=0.01226 ug/mL.

## Bioactivity: FACS




NCI-N87 cells were stained with Anti-Mesothelin Reference Antibody (amatuximab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, The EC50 is 0.020 ug/mL.



Tel: +86 021 3368 1627 Email: service@sanyoubio.com Web: www.crs.sanyoubio.com

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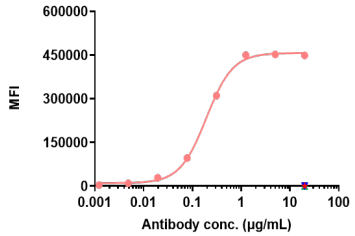
Bioactivity: FACS




Human Mesothelin CHO-K Cell Line were stained with Anti-Mesothelin Reference Antibody (amatuximab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, The EC50 is 0.193 ug/mL.



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