

**Anti-CLDN18.2 Reference Antibody (zolbetuximab)
Recombinant Antibody
Catalog # APR10189****Specification**

Anti-CLDN18.2 Reference Antibody (zolbetuximab) - Product Information

Application	FC, E, FTA
Primary Accession	P56856
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	150 KDa

Anti-CLDN18.2 Reference Antibody (zolbetuximab) - Additional Information**Target/Specificity**
CLDN18.2**Endotoxin**
< 0.001EU/ µg,determined by LAL method.**Conjugation**
Unconjugated**Expression system**
CHO Cell**Format**
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Anti-CLDN18.2 Reference Antibody (zolbetuximab) - Protein Information****Name** CLDN18**Function**
Involved in alveolar fluid homeostasis via regulation of alveolar epithelial tight junction composition and therefore ion transport and solute permeability, potentially via downstream regulation of the actin cytoskeleton organization and beta-2-adrenergic signaling (By similarity). Required for lung alveolarization and maintenance of the paracellular alveolar epithelial barrier (By similarity). Acts to maintain epithelial progenitor cell proliferation and organ size, via regulation of YAP1 localization away from the nucleus and thereby restriction of YAP1 target gene transcription (By similarity). Acts as a negative regulator of RANKL-induced osteoclast differentiation, potentially via relocation of TJP2/ZO-2 away from the nucleus, subsequently involved in bone resorption in response to calcium deficiency (By similarity). Mediates the osteoprotective effects of estrogen, potentially via acting downstream of estrogen signaling independently of RANKL signaling pathways (By similarity).

Cellular Location

Cell junction, tight junction {ECO:0000250|UniProtKB:P56857}. Cell membrane {ECO:0000250|UniProtKB:P56857}; Multi-pass membrane protein. Note=Localizes to tight junctions in epithelial cells {ECO:0000250|UniProtKB:P56857} [Isoform A2]: Cell junction, tight junction {ECO:0000250|UniProtKB:P56857}. Lateral cell membrane {ECO:0000250|UniProtKB:P56857}

Tissue Location

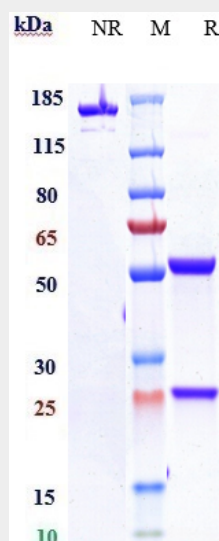
[Isoform A1]: Expression is restricted to the lung.

Anti-CLDN18.2 Reference Antibody (zolbetuximab) - Protocols

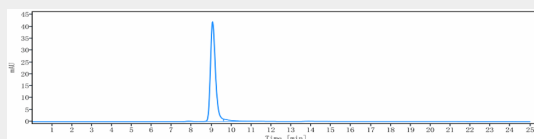
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

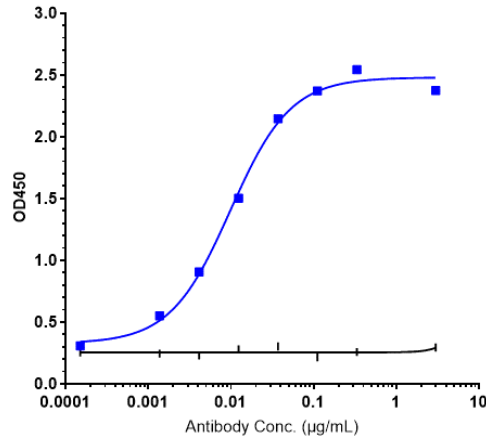
Anti-CLDN18.2 Reference Antibody (zolbetuximab) - Images



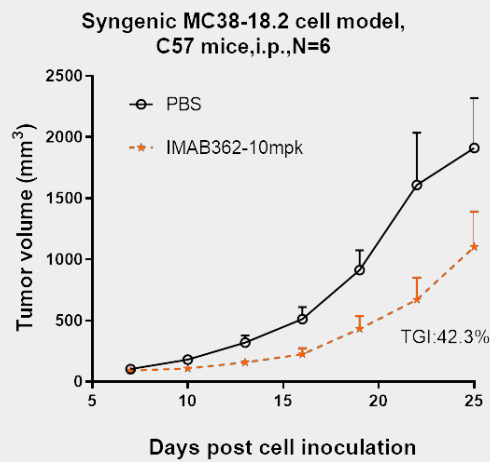
Anti-CLDN18.2 Reference Antibody (zolbetuximab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-CLDN18.2 Reference Antibody (zolbetuximab) is more than 96.05%, determined by SEC-HPLC.



Immobilized human CLDN18.2 VLP at 2 µg/mL can bind Anti-CLDN18.2 Reference Antibody (zolbetuximab) $EC_{50}=0.07951$ µg/mL



Zolbetuximab inhibited the tumor growth of CLDN18.2-MC38 (Mouse colorectal cancer cells) on C57BL/6N mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 42.3% at 10 mpk at D25.