10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLDN18 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9229b

Specification

CLDN18 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P56856

CLDN18 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 51208

Other Names
Claudin-18, CLDN18

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9229b was selected from the C-term region of human CLDN18. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLDN18 Antibody (C-term) Blocking Peptide - 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.

CLDN18 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CLDN18 Antibody (C-term) Blocking Peptide - Images

CLDN18 Antibody (C-term) Blocking Peptide - Background

CLDN18 belongs to the large claudin family of proteins, which form tight junction strands in epithelial cells.

CLDN18 Antibody (C-term) Blocking Peptide - References

Sahin,U., et.al., Clin. Cancer Res. 14 (23), 7624-7634 (2008)Zwiers,A., et.al, Inflamm. Bowel Dis. 14 (12), 1652-1659 (2008)