

**CLDN15 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9831c****Specification**

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**CLDN15 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P56746](#)**CLDN15 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 24146**Other Names**

Claudin-15, CLDN15

**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.

**CLDN15 Antibody (Center) Blocking Peptide - Protein Information****Name** CLDN15**Function**

Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members function as impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN15 forms tight junctions that mediate the paracellular transport of small monovalent cations along a concentration gradient, due to selective permeability for Na(+), Li(+) and K(+) ions, but selects against Cl(-) ions. Plays an important role in paracellular Na(+) transport in the intestine and in Na(+) homeostasis. Required for normal Na(+)-dependent intestinal nutrient uptake.

**Cellular Location**

Cell junction, tight junction. Cell membrane; Multi-pass membrane protein. Note=Tight junctions form continuous circumferential cell-cell contacts at the borders of apical and lateral cell membranes that seal the intercellular space and show up as strand-like structures in electron microscopy

**Tissue Location**

Detected in colon (at protein level).

## **CLDN15 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **CLDN15 Antibody (Center) Blocking Peptide - Images**

## **CLDN15 Antibody (Center) Blocking Peptide - Background**

Plays a major role in tight junction specific obliteration of the intercellular space, through calcium independent cell adhesion activity

## **CLDN15 Antibody (Center) Blocking Peptide - References**

Van Itallie, C.M., et al. Am. J. Physiol. Renal Physiol. 285 (6), F1078-F1084 (2003)  
Gonzalez-Mariscal, L., et al. Prog. Biophys. Mol. Biol. 81(1):1-44(2003)Tsukita, S., et al. Curr. Opin. Cell Biol. 14(5):531-536(2002)Colegio, O.R., et al. Am. J. Physiol., Cell Physiol. 283 (1), C142-C147 (2002)