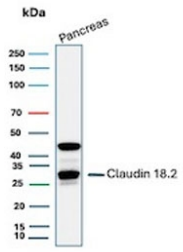
Claudin18.2 Antibody [clone CLDN18.2/8559R] (V5010)

Catalog No.	Formulation	Size
V5010-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5010-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5010SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

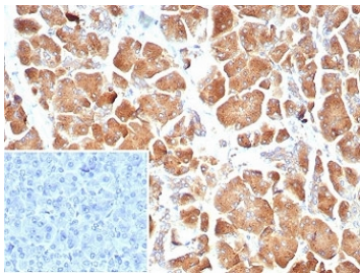
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CLDN18.2/8559R
Purity	Protein A/G affinity
UniProt	P56856
Localization	Cell junction, Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This Claudin18.2 antibody is available for research use only.



Western blot testing of human pancreas tissue lysate with Claudin18.2 antibody. Predicted molecular weight ~28 kDa.



IHC staining of FFPE human pancreas tissue with Claudin18.2 antibody (clone CLDN18.2/8559R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

The claudin superfamily consists of many structurally related proteins in humans. These proteins are important structural and functional components of tight junctions in paracellular transport. Claudins are located in both epithelial and endothelial cells in all tight junction-bearing tissues. Three classes of proteins are known to localize to tight junctions, including the claudins, occludin and junction adhesion molecule. Claudins, which consist of four transmembrane domains and two extracellular loops, make up tight junction strands. Emerging evidence suggests that the claudin family of proteins regulates transport through tight junctions via differential discrimination for solute size and charge. Claudin expression is often highly restricted to specfic regions of different tissues and may have an important role in transcellular transport through tight junctions.

Application Notes

Optimal dilution of the Claudin18.2 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-100) from the human protein was used as the immunogen for the Claudin18.2 antibody.

Storage

Store the Claudin18.2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).