

Claudin 1 Antibody

Catalog No: #33332

Package Size: #33332-1 50ul #33332-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

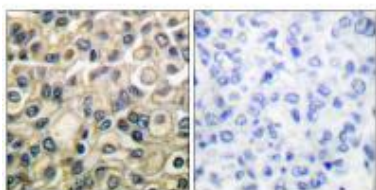
Product Name	Claudin 1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total Claudin 1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human Claudin 1.
Target Name	Claudin 1
Other Names	CLD1; CLDN1; SEMP1; Senescence-associated epithelial membrane protein;
Accession No.	Swiss-Prot: O95832NCBI Gene ID: 9076
Uniprot	O95832
GeneID	9076;
SDS-PAGE MW	22kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

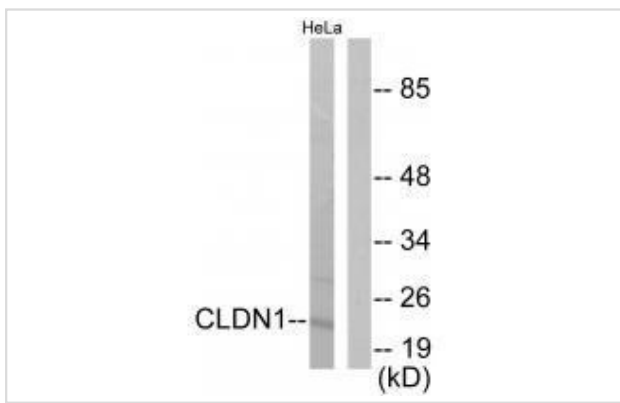
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

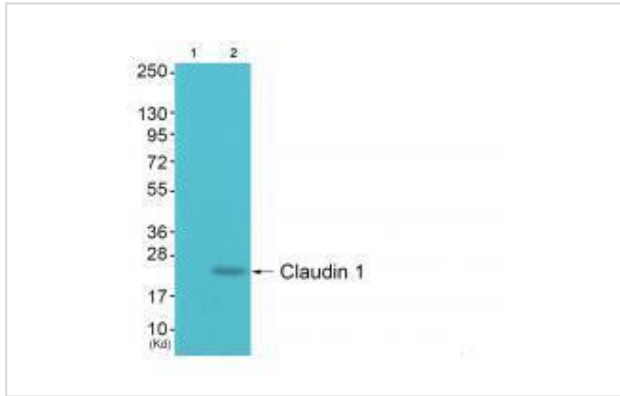
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Claudin 1 antibody #33332.



Western blot analysis of extracts from HeLa cells, using Claudin 1 antibody #33332.



Western blot analysis of extracts from 293 cells (Lane 2), using Claudin 1 antibody #33332. The lane on the left is treated with synthesized peptide.

Background

Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles in the formation of 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. CLDN1 is required to prevent the paracellular diffusion of small molecules through tight junctions in the epidermis and is required for the normal barrier function of the skin. Required for normal water homeostasis and to prevent excessive water loss through the skin, probably via an indirect effect on the expression levels of other proteins, since CLDN1 itself seems to be dispensable for water barrier formation in keratinocyte tight junctions (). CLDN1 acts as a coreceptor for HCV entry into hepatic cells.

Julie Dufresne and Daniel G. Cyr, *Biol Reprod*, May 2007; 76: 825 - 832.

Evemie Dubé, *Biol Reprod*, Apr 2007; 10.1095/biolreprod.106.059246.

Michele A. Battle, *PNAS*, May 2006; 103: 8419 - 8424.

Edmund C. Chang, *Endocrinology*, Oct 2006; 147: 4831 - 4842.

Note: This product is for in vitro research use only