

Rabbit anti-Human, Mouse Claudin 10 Polyclonal Antibody | anti-CLDN10 antibody

Claudin 10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320780	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

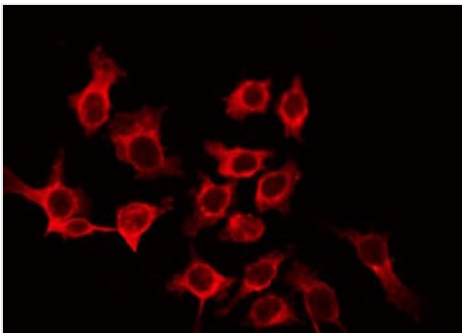
PRODUCT SYNONYMS

Claudin 10; Polyclonal Antibody; Claudin 10 Antibody; Claudin-10; Claudin10; CLD10_HUMAN; CLDN 10; CLDN10; CLDN10 protein; CPETRL 3; CPETRL3; HGNC:2033; OSP L; OSP like protein; OSP-like protein; OSPL; anti-CLDN10 antibody

PRODUCT SPECIFICATIONS

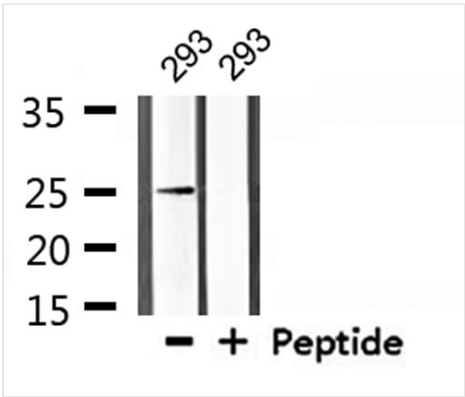
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Claudin 10 antibody detects endogenous levels of total Claudin 10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	207
Applicable Applications for anti-CLDN10 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Claudin 10
Subcellular Location	Cell Junction > Tight Junction. Cell Membrane.
Tissue Specificity	Expressed in the kidney, eccrine sweat glands and in all layers of the epidermis. In the kidney, it is detected in the thick ascending limb of Henle's loop (TAL) (PubMed:28771254, PubMed:28686597). In the sweat glands, it is expressed in cells from secretory portions, corresponding to the clear cells (PubMed:28686597).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



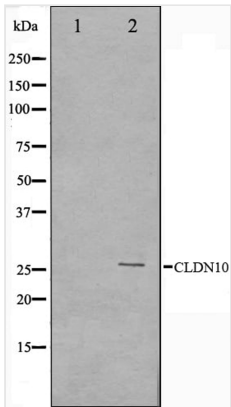
IF (Immunofluorescence)

AAA320780 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from 293, using Claudin 10 Antibody.



WB (Western Blot)

Western blot analysis on LOVO cell lysate using Claudin 10 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CLDN10 antibody	Description: Claudin 10 Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Belongs to the claudin family. Function: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Involved in the regulation of paracellular epithelia permeability to ions in multiple organs. It acts as a paracellular ion channel probably forming permselective pores; isoform 1 appears to create pores preferentially permeable to cations and isoform 2 for anions. In sweat glands and in the thick ascending limb (TAL) of Henle's loop in kidney, it controls paracellular sodium permeability which is essential for proper sweat production and renal function (PubMed:19383724, PubMed:28771254, PubMed:28686597). Subunit Structure: Can form homodimers both in trans (interaction between CLDN10 molecules in opposing membranes) and in cis (interaction between CLDN10 molecules within one membrane). Similarity: The fourth transmembrane region (161-181) is necessary for integration into tight junctions. Belongs to the claudin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	231569235
NCBI GeneID	9071
NCBI Accession #	NP_001153572.1
NCBI GenBank Nucleotide #	NM_001160100.1
UniProt Accession #	P78369; Q6IBF9; Q96N78

Molecular Weight	Observed: 25 kDa Predicted: 25 kDa
NCBI Official Full Name	claudin-10 isoform a_i1
NCBI Official Synonym Full Names	claudin 10
NCBI Official Symbol	CLDN10
NCBI Official Synonym Symbols	OSPL; HELIX; OSP-L; CPETRL3
NCBI Protein Information	claudin-10
UniProt Protein Name	Claudin-10
UniProt Gene Name	CLDN10
UniProt Synonym Gene Names	OSP-like

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/polyclonal/claudin-10-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320780>