

Rabbit anti-Human, Mouse Claudin 2 Polyclonal Antibody | anti-CLDN2 antibody

Claudin 2 Antibody

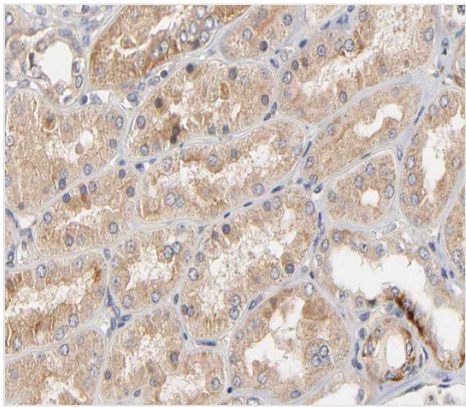
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320776	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

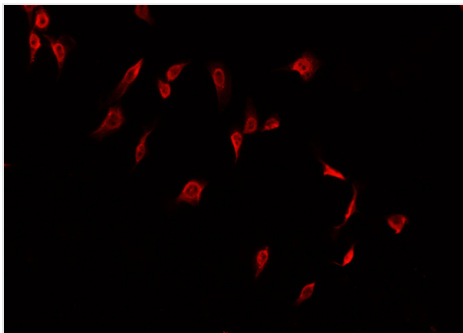
Claudin 2; Polyclonal Antibody; Claudin 2 Antibody; Claudin-2; Claudin2; CLD2_HUMAN; CLDN 2; CLDN2; OTTHUMP00000023793; SP 82; SP82; anti-CLDN2 antibody

PRODUCT SPECIFICATIONS

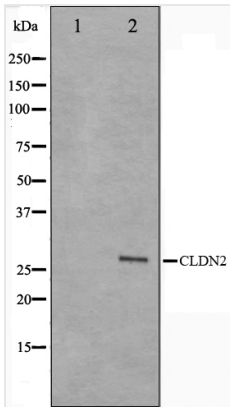
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Claudin 2 antibody detects endogenous levels of total Claudin 2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, sodium azide and glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	230
Applicable Applications for anti-CLDN2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Claudin 2
Subcellular Location	Cell Junction > Tight Junction. Cell Membrane.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



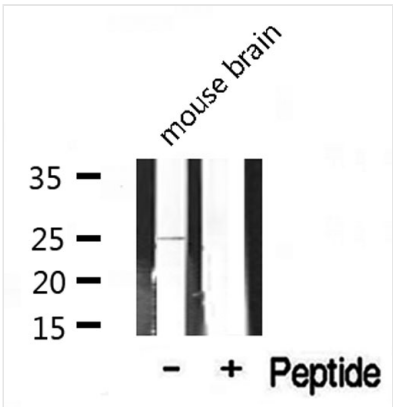
IHC (Immunohistochemistry)
AAA320776 at 1/200 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA320776 staining A549 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis on NIH-3T3 cell lysate using Claudin 2 Antibody, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis on mouse brain lysate using Claudin 2 Antibody

ADDITIONAL INFORMATION

Related Product Information for anti-CLDN2 antibody	Description: Claudin 2 Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Belongs to the claudin family. Can form homo-and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN1, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Function: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Subunit Structure: Can form homo-and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN1, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3 (By similarity). Post-translational Modifications: The disulfide bond is necessary for pore formation, but is not required for correct protein trafficking. Similarity: Belongs to the claudin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	283806628
NCBI GeneID	9075
NCBI Accession #	NP_001164563.1
NCBI GenBank Nucleotide #	NM_001171092.1

UniProt Accession #	P57739; B2R6B9
Molecular Weight	Observed: 25 kDa Predicted: 25 kDa
NCBI Official Full Name	claudin-2
NCBI Official Synonym Full Names	claudin 2
NCBI Official Symbol	CLDN2
NCBI Protein Information	claudin-2
UniProt Protein Name	Claudin-2
UniProt Gene Name	CLDN2

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/claudin-2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320776>