

Rabbit Claudin 4 Polyclonal Antibody | anti-CLDN4 antibody

Claudin 4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322001	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

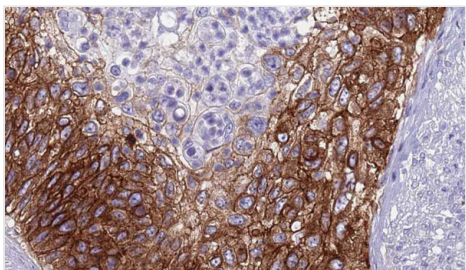
PRODUCT SYNONYMS

Claudin 4; Polyclonal Antibody; Claudin 4 Antibody; Claudin-4; Claudin4; CLD4_HUMAN; CLDN 4; CLDN4; Clostridium perfringens enterotoxin receptor 1; Clostridium perfringens enterotoxin receptor; CPE R; CPE receptor; CPE-R; CPE-receptor; CPER; CPETR 1; CPETR; CPETR1; hCPE R; WBSCR8; Williams Beuren syndrome chromosome region 8 protein; Williams-Beuren syndrome chromosomal region 8 protein; anti-CLDN4 antibody

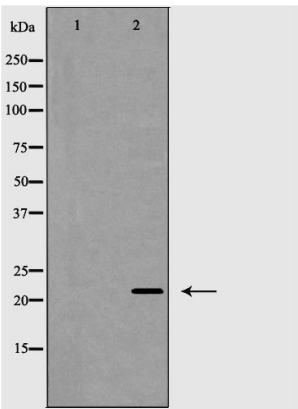
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Claudin 4 antibody detects endogenous levels of total Claudin 4
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	209
Applicable Applications for anti-CLDN4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Claudin 4
Subcellular Location	Cell Junction > Tight Junction. Cell Membrane.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (93%), Bovine (93%), Horse (87%), Sheep (93%), Rabbit (93%), Dog (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA322001 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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.



WB (Western Blot)
Western blot analysis of Claudin 4 expression in HeLa cells. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CLDN4 antibody	Description: Note=CLDN4 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Function: Channel-forming tight junction protein that mediates paracellular chloride transport in the kidney. Plays a critical role in the paracellular reabsorption of filtered chloride in the kidney collecting ducts. Claudins play a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Subunit Structure: Directly interacts with TJP1/ZO-1 (PubMed:16236711). Interacts with TJP2/ZO-2 and TJP3/ZO-3 (By similarity). Interacts with EPHA2; phosphorylates CLDN4 and may regulate tight junctions (PubMed:16236711). Interacts with CLDN1 (PubMed:20375010). Interacts with CLDN4 (By similarity). Post-translational Modifications: Phosphorylated. Phosphorylation by EPHA2 is stimulated by EFNA1 and alters interaction with TJP1. Similarity: Belongs to the claudin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502877
NCBI GeneID	1364
NCBI Accession #	NP_001296.1
NCBI GenBank Nucleotide #	NM_001305.4
UniProt Accession #	O14493
Molecular Weight	Observed: 22 kDa Predicted: 23 kDa
NCBI Official Full Name	claudin-4
NCBI Official Synonym Full Names	claudin 4
NCBI Official Symbol	CLDN4
NCBI Official Synonym Symbols	CPER; CPE-R; CPETR; CPETR1; WBSCR8; hCPE-R
NCBI Protein Information	claudin-4
UniProt Protein Name	Claudin-4
UniProt Gene Name	CLDN4

UniProt Synonym Gene Names

CPER1 PublicationManual assertion based on opinion iniRef.1; CPE-R1 PublicationManual assertion based on opinion iniRef.1; CPE-receptor1 PublicationManual assertion based on opinion iniRef.1

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-4-antibody-immunohistochemistry-western-blot-elisa/322001>