

Rabbit anti-Human, Mouse CDH13 Polyclonal Antibody | anti-CDH13 antibody

CDH13 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326363	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CDH13; Polyclonal Antibody; CDH13 Antibody; CAD13_HUMAN; Cadherin-13; CDHH; H-cadherin; Heart cadherin; P105; T cad; T Cadherin; T-cad; T-cadherin; Truncated cadherin; anti-CDH13 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CDH13 antibody detects endogenous levels of total CDH13
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	674
Applicable Applications for anti-CDH13 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CDH13
Subcellular Location	Cell Membrane
Tissue Specificity	Highly expressed in heart. In the CNS, expressed in cerebral cortex, medulla, hippocampus, amygdala, thalamus and substantia nigra. No expression detected in cerebellum or spinal cord.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (92%), Bovine (92%), Horse (92%), Sheep (92%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326363 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 of mouse heart, using CDH13 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326363 at 1/100 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.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH13 antibody

Description: This gene encodes a member of the cadherin superfamily. The encoded protein is localized to the surface of the cell membrane and is anchored by a GPI moiety, rather than by a transmembrane domain. The protein lacks the cytoplasmic domain characteristic of other cadherins, and so is not thought to be a cell-cell adhesion glycoprotein. This protein acts as a negative regulator of axon growth during neural differentiation. It also protects vascular endothelial cells from apoptosis due to oxidative stress, and is associated with resistance to atherosclerosis. The gene is hypermethylated in many types of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2011]

Function: Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. May act as a negative regulator of neural cell growth.

Subunit Structure: By contrast to classical cadherins, homodimerization in trans is not mediated by cadherin EC1 domain strand-swapping, but instead through a homophilic adhesive interface which joins two elongated EC1-EC2 domains through a region near their Ca2+-binding sites to form a tetrahedral, X-like shape.

Similarity: Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain.

NCBI AND UNIPROT INFORMATION

NCBI GI #	333944018
NCBI GeneID	1012
NCBI Accession #	NP_001207418.1
NCBI GenBank Nucleotide #	NM_001220489.1
UniProt Accession #	P55290; Q6GTW4; Q8TBX3; A8W476; A8W477; B7Z590; C9JRI6; J3KN62
Molecular Weight	Observed: 78 kDa Predicted: 79 kDa
NCBI Official Full Name	cadherin-13 isoform 3
NCBI Official Synonym Full Names	cadherin 13
NCBI Official Symbol	CDH13
NCBI Official Synonym Symbols	CDHH; P105
NCBI Protein Information	cadherin-13

UniProt Protein Name	Cadherin-13
UniProt Gene Name	CDH13
UniProt Synonym Gene Names	CDHH; H-cadherin; T-cad; T-cadherin

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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