



Rabbit Anti-Cadherin 10 antibody

SL11169R

Product Name:	Cadherin 10
Chinese Name:	钙粘附分子10抗体
Alias:	cadherin10; cadherin-10; Cadherin 10 (T2 cadherin); Cadherin 10 type 2 (T2 cadherin); Cadherin 10 type 2; Cadherin10; T2 cadherin; CAD10_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	82kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cadherin 10:31-130/788<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The cadherins are a family of Ca ²⁺ -dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of structure and morphogenesis. Cadherins each contain a large extracellular domain at the N-terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. T2-cadherin, also known as cadherin-10 or

CDH10, is a 788 amino acid single-pass type I membrane protein that belongs to the cadherin family and contains five cadherin domains. Expressed predominately in brain, but also found in prostate and both adult and fetal kidney, T2-cadherin functions as a calcium-dependent cell adhesion protein that is thought to be involved in the maintenance of synaptic adhesions, axon outgrowth and guidance.

Function:

Cadherin 10 is a type II classical cadherin from the cadherin superfamily. These are integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is predominantly expressed in brain and is putatively involved in synaptic adhesions, axon outgrowth and guidance.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein

Tissue Specificity:

Predominantly expressed in brain. Also found in adult and fetal kidney. Very low levels detected in prostate and fetal lung.

SWISS:

Q9Y6N8

Gene ID:

1008

Database links:

[Entrez Gene: 1008](#)Human

[Entrez Gene: 320873](#)Mouse

[Entrez Gene: 29181](#)Rat

[Oimim: 604555](#)Human

[SwissProt: Q9Y6N8](#)Human

[SwissProt: P70408](#)Mouse

[Unigene: 92489](#)Human

[Unigene: 117794](#)Mouse

[Unigene: 446240](#)Mouse

[Unigene: 83592](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com