

Rabbit Anti-Claudin 5 antibody

SL10296R

Product Name Claudin 5

Chinese Name 紧密连接蛋白 5 抗体

Alias AWAL; BEC 1; BEC1; Claudin 5 (transmembrane protein deleted in velocardiofacial syndrome); Claudin5; Claudin-5;CLDN 5; CLDN5; CPETR L1; CPETRL 1; CPETRL1; TMDVCF; TMVCF; Transmembrane protein deleted in VCFS; Transmembrane protein deleted in velocardiofacial syndrome; Androgen withdrawal and apoptosis induced protein RVP1 like; CLD5_HUMAN.

Research Area Signal transduction Cell adhesion molecule Cytoskeleton

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, (predicted: Rat, Pig, Cow, Horse, Rabbit, Sheep,)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test
(Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 23kDa

Cellular localization The cell membrane Extracellular matrix

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Claudin 5: 29-81/218
<Extracellular>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

PubMed

[PubMed](#)

This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2008]

Function:

Plays a major role in tight junction-specific obliteration of the intercellular space.

Subunit:

Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Interacts with MPDZ.

Subcellular Location:

Cell junction, tight junction. Cell membrane; Multi-pass membrane protein.

Tissue Specificity:

Expressed in activated, but not resting, CD4+ T-cells and activated monocytes.

**Product
Detail**

Similarity:

Belongs to the claudin family.

SWISS:

O00501

Gene ID:

7122

Database links:

[Entrez Gene: 7122](#) Human

[Entrez Gene: 12741](#) Mouse

[Omim: 602101](#) Human

[SwissProt: Q2HJ22](#) Cow

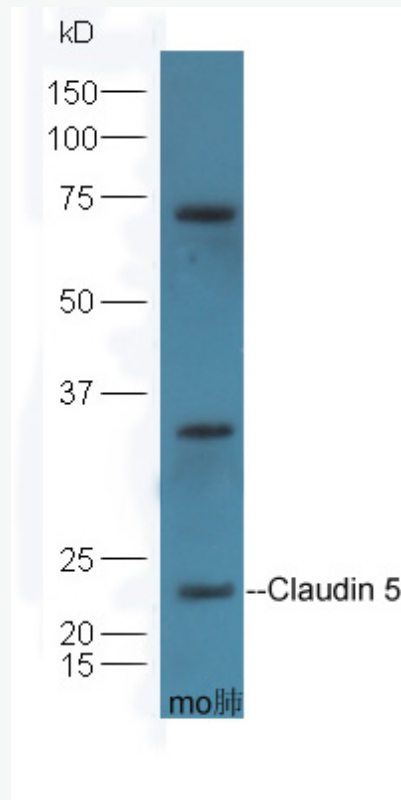
[SwissProt: O00501](#) Human

[SwissProt: O54942](#) Mouse

[Unigene: 505337](#) Human

[Unigene: 22768](#) Mouse

**Product
Picture**



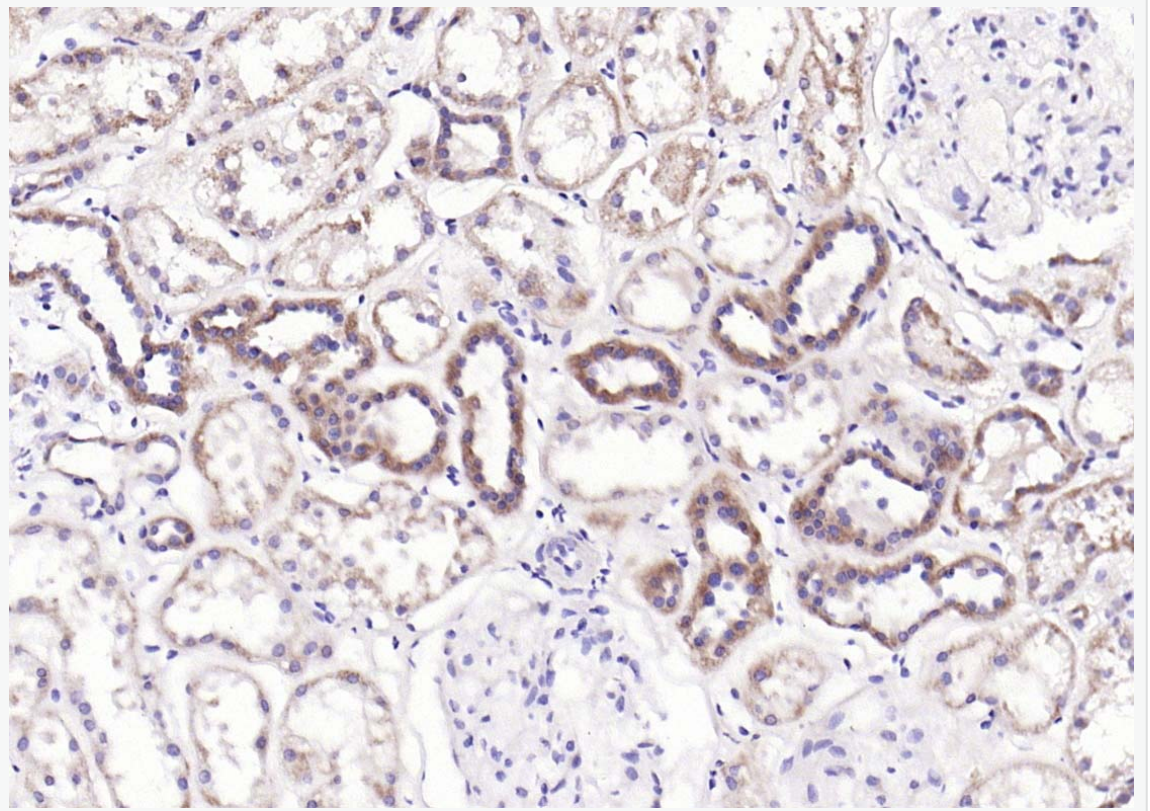
Protein: lung(mouse) lysates at 45ug; Primary: Anti-Claudin 5 (SL10296R) at 1:300;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1: 5000;

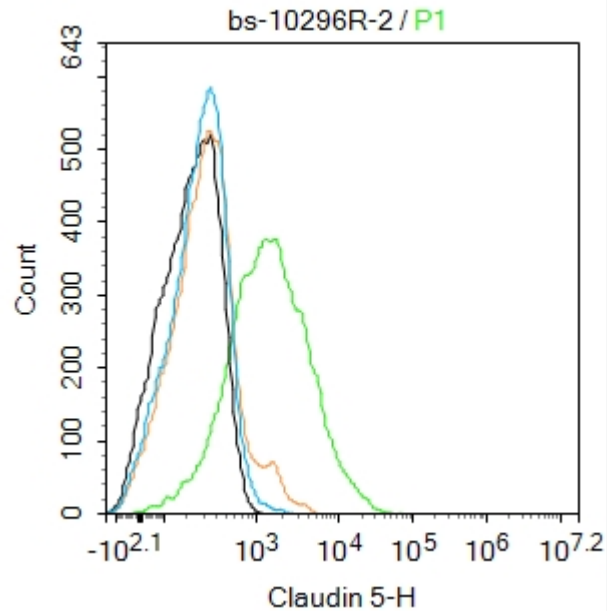
ECL excited the fluorescence;

Predicted band size :23 kD

Observed band size :23kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Claudin 5) Polyclonal Antibody, Unconjugated (SL10296R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: K562.

Primary Antibody (green line): Rabbit Anti-Claudin 5 antibody (SL10296R)

Dilution: 2 μ g / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5 μ g /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.