SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Claudin 18 antibody

Catalog Number: SL22656R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Claudin 18
Immunogen:	KLH conjugated synthetic peptide derived from human Claudin 18: 28-80/261
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit)
Predicted MW.:	28kDa
Subcellular Location:	The cell membrane
Background:	The Claudin superfamily consists of many structurally related proteins in humans (1). These proteins are important structural and functional components of tight junctions in paracellular transport (1,2). Claudins are located in both epithelial and endothelial cells in all tight junction-bearing tissues (1). Three classes of proteins are known to localize to tight junctions, including the Claudins, Occludin and Junction adhesion molecule (3). Claudins, which consist of four transmembrane domains and two extracellular loops make up tight junction strands (4). Emerging evidence suggests that the Claudin family of proteins regulates transport through tight junctions via differential discrimination for solute size and charge (5).Claudin expression is often highly restricted to specfic regions of different tissues and may have an important role

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	in transcellular transport through tight junctions (6). **Function:** Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. **Subcellular Location:** Cell junction > tight junction. Cell membrane. **Tissue Specificity:** Concentrated at the cell-cell borders of epithelial cells. **Similarity:** Belongs to the claudin family. **Database links:** **Entrez Gene:** 51208 Human **Entrez Gene:** 56492 Mouse **Entrez Gene:** 315953 Rat Omim: 609210 Human **SwissProt:** P56856 Human **SwissProt:** P56857 Mouse **SwissProt:** D3ZLY1 Rat **Unigene:** 655324 Human **Unigene:** 386784 Mouse

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