SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Claudin 2 antibody

Catalog Number: SL23849R

FOR RESEARCH USE ONLY

[DATASHEET]

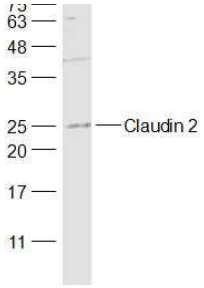
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Claudin 2
Immunogen:	KLH conjugated synthetic peptide derived from human Claudin 2: 101-200/230 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/1ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	25kDa
Subcellular Location:	The cell membrane
Background:	The claudin superfamily consists of structurally related proteins that are important structural and functional components of tight junctions. Claudin-2, also known as CLDN2 or SP82, is a 230 amino acid multi-pass membrane protein that localizes to the cell junctions and belongs to the claudin superfamily. Able to form homopolymers of heteropolymers with other claudin family members, claudin-2 plays an essential role in mediating calcium-independent cell-adhesion activity that is necessary for tight junction-specific obliteration of the intercellular space. Overexpression of claudin-2 is associated with a variety of diseases, including lung cancer, colorectal cancer, gastrointestinal carcinomas and inflammatory bowel disease, further affirming the importance of claudin-2 in cell adhesion. The gene encoding claudin-2 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes. **Function:** Plays a major role in tight junction-specific obliteration of the

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	intercellular space, through calcium-independent cell-adhesion activity. **Subunit:** Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN1, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3 (By similarity). **Subcellular Location:** Cell junction; tight junction. Cell membrane. **Similarity:** Belongs to the claudin family. **Database links:** **Entrez Gene:** 404089 Cow **Entrez Gene:** 9075 Human **Entrez Gene:** 12738 Mouse **Entrez Gene:** 300920 Rat Omim: 300520 Human **SwissProt:** P57739 Human **SwissProt:** O88552 Mouse **Unigene:** 522746 Human **Unigene:** 117068 Mouse **Unigene:** 93431 Rat

[VALIDATION IMAGES]



Sample:
A549(Human) Cell Lysate at 30 ug
Primary: Anti-Claudin 2 (SL23849R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 25 kD

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