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

Rabbit Anti-Claudin 14 antibody

SL10554R

Product Name	Claudin 14
Chinese Name	紧密连接蛋白 14 抗体
Alias	Claudin-14; CLDN14; DFNB29; Human CLDN14 gene; OTTHUMP00000109046; OTTHUMP OTTMUSP00000021531; UNQ777/PRO1571.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	26kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Claudin 14: 21-120/221 <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℃. 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 d applications.
PubMed	PubMed
Product Detail	The Claudin superfamily consists of many structurally related proteins in humans. These protein structural and functional components of tight junctions in paracellular transport. Claudins are loc epithelial and endothelial cells in all tight junction-bearing tissues. Three classes of proteins are

localize to tight junctions, including the claudins, Occludin and Junction adhesion molecules. Cl
consist of four transmembrane domains and two extracellular loops, make up tight junction stran
expression is often highly restricted to specfic regions of different tissues and may have an impo
transcellular transport through tight junctions. Claudin-14 is a multi-pass membrane protein that
liver, kidney and ear. Defects in the gene encoding claudin-14 are the cause of non-syndromic se
deafness autosomal recessive type 29 (DFNB29), a form of hearing loss resulting from damage t
pathways or neural receptors of the inner ear.

Function:
Plays a major role in tight junction-specific obliteration of the intercellular space, through calciu
cell-adhesion activity. Acts as a co-receptor for HCV entry into hepatic cells.

Subunit:
Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, b
homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Interacts with M
INADL (By similarity). May interact with HCV E1 and E2 proteins.

Subcellular Location:
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein.

Tissue Specificity:
Strongly expressed in liver and kidney. Expressed in heart, brain, spleen, lung and testis.

DISEASE:
Defects in CLDN1 are the cause of ichthyosis-sclerosing cholangitis neonatal syndrome (NISCH
[MIM:607626]; also called ichthyosis with leukocyte vacuoles alopecia and sclerosing cholangit
NISCH is a rare autosomal recessive complex ichthyosis syndrome characterized by scalp hypot
scarring alopecia, vulgar type ichthyosis, and sclerosing cholangitis.

Similarity:
Belongs to the claudin family.

SWISS:
O95500

Gene ID:
23562

Database links:

Entrez Gene: 23562 Human

Entrez Gene: 56173 Mouse

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

Entrez Gene: 304073 Rat

Omim: 605608 Human

SwissProt: O95500 Human

SwissProt: Q9Z0S3 Mouse

Unigene: 660278 Human

Unigene: 328716 Mouse