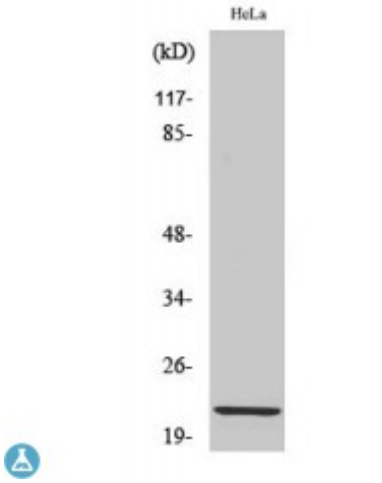
Anti-Claudin-1 antibody



Description	Rabbit polyclonal to Claudin-1.

Model	STJ92307
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human Claudin-1
Immunogen Region	140-220 aa, C-terminal
Gene ID	9076
Gene Symbol	CLDN1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:40000
Specificity	Claudin-1 Polyclonal Antibody detects endogenous levels of Claudin-1 protein.
Tissue Specificity	Strongly expressed in liver and kidney. Expressed in heart, brain, spleen, lung and testis.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Claudin-1 Senescence-associated epithelial membrane protein
Molecular Weight	22 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:2032OMIM:603718
Alternative Names	Claudin-1 Senescence-associated epithelial membrane protein
Function	Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles in the formation of impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN1 is required to prevent the paracellular diffusion of small molecules through tight junctions in the epidermis and is required for the normal barrier function of the skin. Required for normal water homeostasis and to prevent excessive water loss through the skin, probably via an indirect effect on the expression levels of other proteins, since CLDN1 itself seems to be dispensable for water barrier formation in keratinocyte tight junctions . (Microbial infection) Acts as a receptor for hepatitis C virus (HCV) in hepatocytes . Associates with CD81 and the CLDN1-CD81 receptor complex is essential for HCV entry into host cell . Acts as a receptor for dengue virus .
Cellular Localization	Cell junction, tight junction Cell membrane Basolateral cell membrane. Associates with CD81 and the CLDN1-CD81 complex localizes to the basolateral cell membrane.