



Claudin 1 mouse mAb(ABT-CLD1)

Catalog No	YP-Ab-15468
Isotype	IgG
Reactivity	Human
Applications	IHC;IF
Gene Name	
Protein Name	Claudin 1
Immunogen	Synthesized peptide derived from human Claudin 1
Specificity	This antibody detects endogenous levels of human Claudin 1. Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH9.0 was highly recommended as antigen repair method in paraffin section
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Mouse, Monoclonal/IgG1, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:100-300, WB 1:500-2000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Claudin-1 (Senescence-associated epithelial membrane protein)
Observed Band	
Cell Pathway	Cell junction, tight junction . Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane . Associates with CD81 and the CLDN1-CD81 complex localizes to the basolateral cell membrane. .
Tissue Specificity	Strongly expressed in liver and kidney. Expressed in heart, brain, spleen, lung and testis.
Function	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 cholangitis (ILVASC). NISCH is a rare autosomal recessive complex ichthyosis syndrome characterized by scalp hypotrichosis, scarring alopecia, vulgar type ichthyosis, and sclerosing cholangitis.,function:Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity (By similarity). Acts as a co-receptor for HCV entry into hepatic cells.,similarity:Belongs to the claudin family.,subunit:Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN2, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Interacts with MPDZ and INADL (By similarity). May interact with HCV E1 an

**Background**

Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008],

matters needing attention

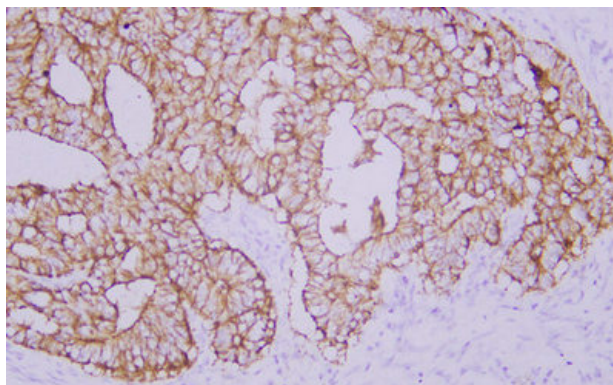
Avoid repeated freezing and thawing!

Usage suggestions

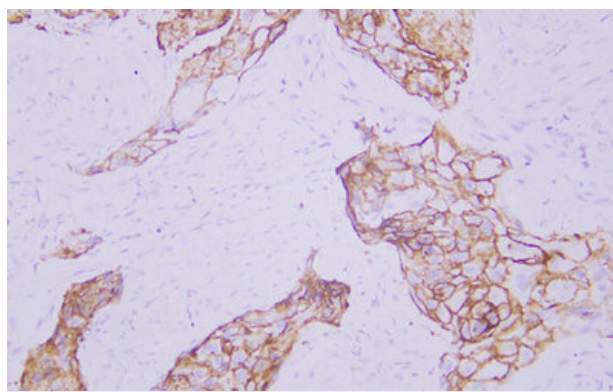
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



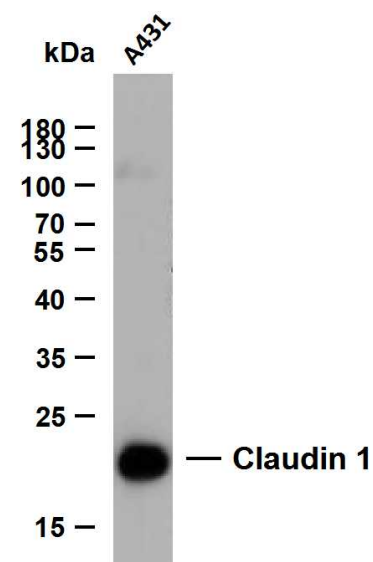
Products Images



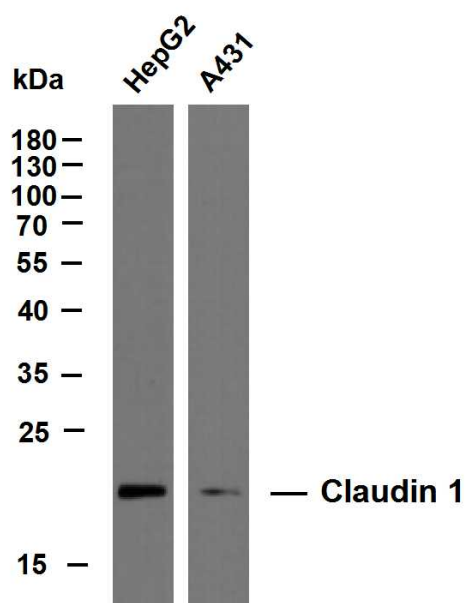
Immunohistochemical analysis of paraffin-embedded Colon carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, TRIS-EDTA of pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, TRIS-EDTA of pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-Claudin 1 (ABT-CLD1)antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Predicted band size: 22kDa Observed band size: 22kDa



Various whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-Claudin 1 (ABT-CLD1) antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: A431
Predicted band size: 22kDa Observed band size: 19kDa