

Datasheet for ABIN6138692
anti-Claudin 5 antibody (AA 230-303)

4 Images

1 Publication

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Claudin 5 (CLDN5)
Binding Specificity:	AA 230-303
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Claudin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 230-303 of human CLDN5 (NP_001124333.1).
Sequence:	REFYDPSVPV SQKYELGAAL YIGWAATALL MVGGCLLCCG AWWCTGRPDL SFPVKYSAPR RPTATGDYDK KNYV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Claudin 5 (CLDN5)
Alternative Name:	CLDN5 (CLDN5 Products)
Background:	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternatively spliced transcript variants encoding the same protein have been found for this gene.,CLDN5,AWAL,BEC1,CPETRL1,TMVCF,claudin-5,Signal Transduction,Cell Biology & Developmental Biology,Cell Adhesion,Tight Junctions,Cytoskeleton,CLDN5
Molecular Weight:	23 kDa
Gene ID:	7122
UniProt:	O00501
Pathways:	Hepatitis C

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

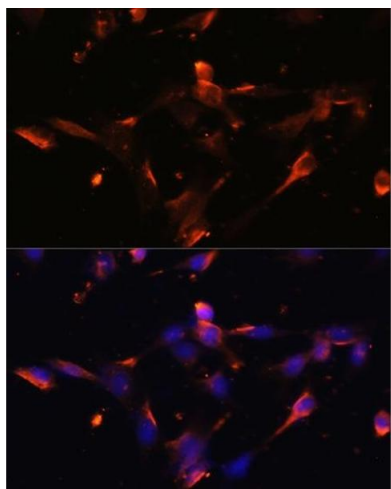
Publications

Product cited in:	Yang, He, Yao, Tan, Zhu, Li, Guo, Wei: "Regulation of AMPK-related glycolipid metabolism
-------------------	--

imbalances redox homeostasis and inhibits anchorage independent growth in human breast cancer cells." in: **Redox biology**, Vol. 17, pp. 180-191, (2018) ([PubMed](#)).

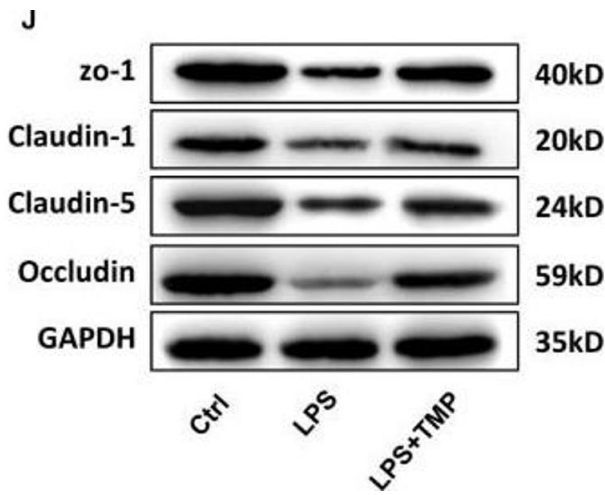
Ni, He, Dai, Yao, Guo, Wei: "Oroxylin A suppresses the development and growth of colorectal cancer through reprogram of HIF1 α -modulated fatty acid metabolism." in: **Cell death & disease**, Vol. 8, Issue 6, pp. e2865, (2018) ([PubMed](#)).

Images



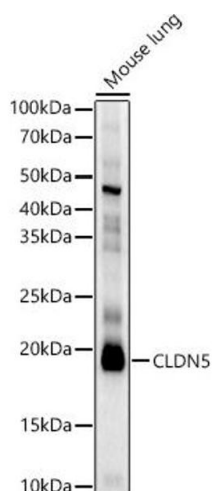
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using CLDN5 antibody (ABIN6127705, ABIN6138692, ABIN6138693 and ABIN6214365) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. TMP has a protective effect on the LPS-induced BBB destruction in sepsis. (A) Sodium fluorescein staining revealed the degree of blood-brain barrier damage, and the images were taken by a UV gel imager. (B) The relative intensity of the Sodium fluorescein signaling is calculated. (C) IHC staining of the occludin in hippocampus of the rats (Upper, 100x, Lower, 400x). (D) The relative IHC intensity of occludin protein, (E) IHC staining of the Claudin-5 in hippocampus of the rats (Upper, 100x, Lower, 400x). (F) The relative IHC intensity of Claudin-5 protein, (G) IHC staining of the Claudin-1 in hippocampus of the rats (Upper, 100x, Lower, 400x). (H) The relative IHC intensity of Claudin-1 protein, (I) The relative levels of the ZO-1, Occludin, and Claudin-5 genes in the brains of each group (n=8). (J-K) Western blot results and Histogram shows statistical



quantified results. Compared with the LPS group, * $P < 0.05$, ** $P < 0.01$. Compared with the Control group, # $P < 0.05$. - figure provided by CiteAb. Source: PMID33123008

Western Blotting

Image 3. Western blot analysis of extracts of Mouse lung, using CLDN5 antibody (ABIN6127705, ABIN6138692, ABIN6138693 and ABIN6214365) at 1:2173 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6138692.