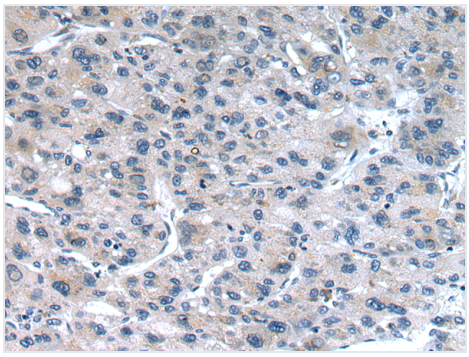
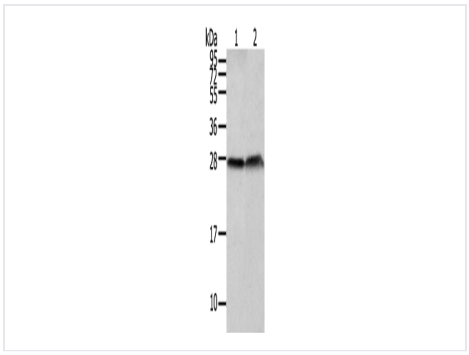
CLDN19 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLDN19, Polyclonal Antibody
Full Product Name	CLDN19 Polyclonal Antibody
Product Gene Name	anti-CLDN19 antibody
Product Synonym Names	HOMG5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purification
Concentration	8.55mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	23 kDa
OMIM	AF497644 mRNA
Immunogen	Synthetic peptide of human CLDN19
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-162687 / sc-162688 / sc-162689 / sc-162690
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CLDN19 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CLDN19 antibody	ELISA: 1:1000-2000 IHC: 1:10-50 WB: 1:200-1000
Related Product Information for anti-CLDN19 antibody	The product of this gene belongs to the claudin family. It plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Defects in this gene are the cause of hypomagnesemia renal with ocular involvement (HOMGO). HOMGO is a progressive renal disease characterized by primary renal magnesium wasting with hypomagnesemia, hypercalciuria and nephrocalcinosis associated with severe ocular abnormalities such as bilateral chorioretinal scars, macular colobomata, significant myopia and nystagmus.
Other Notes	Small volumes of anti-CLDN19 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLDN19 purchase	MBS2542711 is an antibody targeting CLDN19. Also known as CLDN19 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CLDN19 antibody
Immunohistochemistry of paraffin-embedded Human liver cancer using CLDN19 Polyclonal Antibody at dilution of 1/30



Western Blot (WB) of anti-CLDN19 antibody
Western Blot analysis of Hepg2 and 293T cell using CLDN19 Polyclonal Antibody at dilution of 1/200

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN19. It may not necessarily be applicable to this product.

NCBI GI #	297515502
NCBI GeneID	149461
UniProt Secondary Accession #	Q5QT57; Q8N8X0; B7Z5I2; F5H5P9
UniProt Related Accession #	Q8N6F1
GenBank Nucleotide #	NM_001185117.1
NCBI Official Full Name	claudin-19 isoform c
NCBI Official Synonym Full Names	claudin 19
NCBI Official Symbol	CLDN19
NCBI Official Synonym Symbols	HOMG5
UniProt Protein Name	Claudin-19
Protein Family	Claudin
UniProt Gene Name	CLDN19
UniProt Entry Name	CLD19_HUMAN
NCBI Protein Information	claudin-19
NCBI Summary for CLDN19	The product of this gene belongs to the claudin family. It plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Defects in this gene are the cause of hypomagnesemia renal with ocular involvement (HOMGO). HOMGO is a progressive renal disease characterized by primary renal magnesium wasting with hypomagnesemia, hypercalciuria and nephrocalcinosis associated with severe ocular abnormalities such as bilateral chorioretinal scars, macular colobomata, significant myopia and nystagmus. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jun 2010]

UniProt Comments for CLDN19	Claudin-19: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Defects in CLDN19 are the cause of hypomagnesemia renal with ocular involvement (HOMG5). HOMG5 is a progressive renal disease characterized by primary renal magnesium wasting with hypomagnesemia, hypercalciuria and nephrocalcinosis associated with severe ocular abnormalities such as bilateral chorioretinal scars, macular colobomata, significant myopia and nystagmus. The renal phenotype is virtually undistinguishable from that of patients with HOMG3 with proven CLDN16 mutations. Belongs to the claudin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p34.2 Cellular Component: apical junction complex; basolateral plasma membrane; tight junction Molecular Function: identical protein binding Biological Process: calcium-independent cell-cell adhesion Disease: Hypomagnesemia 5, Renal, With Ocular Involvement
Research Articles on CLDN19	**1.** CLDN19 genetic mutation is responsible for familial magnesium deficiency with hypercalciuria and nephrocalcinosis.
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