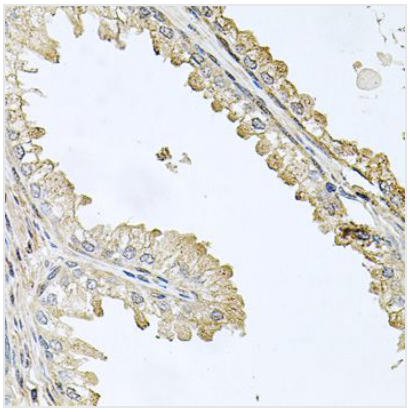
CDH5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDH5, Polyclonal Antibody
Full Product Name	CDH5 Polyclonal Antibody
Product Gene Name	anti-CDH5 antibody
Product Synonym Names	7B4; CD144
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	88kDa
OMIM	X79981 mRNA
3D Structure	ModBase 3D Structure for P33151
Immunogen	A synthetic peptide of human CDH5
Product Categories/Family for anti-CDH5 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CDH5 antibody	Immunohistochemistry (IHC)
Application Notes for anti-CDH5 antibody	IHC: 1:50 - 1:100
Related Product Information for anti-CDH5 antibody	This gene encodes a classical cadherin of the cadherin superfamily. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classical cadherin by imparting to cells the ability to adhere in a homophilic manner, this protein plays a role in endothelial adherens junction assembly and maintenance. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer.
Other Notes	Small volumes of anti-CDH5 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 CDH5 purchase	MBS9132309 is an antibody targeting CDH5. Also known as CDH5 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CDH5 antibody
Immunohistochemistry of paraffin-embedded human prostate using CDH5 antibody at dilution of 1:100 (40x lens).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH5. It may not necessarily be applicable to this product.

NCBI GI #	322510142
NCBI GeneID	1003
NCBI Accession #	P33151.5
UniProt Primary Accession #	P33151
UniProt Secondary Accession #	Q4VAI5; Q4VAI6
UniProt Related Accession #	P33151
NCBI Official Full Name	Cadherin-5
NCBI Official Synonym Full Names	cadherin 5
NCBI Official Symbol	CDH5
NCBI Official Synonym Symbols	7B4; CD144
UniProt Protein Name	Cadherin-5
UniProt Synonym Protein Names	7B4 antigen; Vascular endothelial cadherin; VE-cadherin; CD_antigen: CD144
Protein Family	Cadherin
UniProt Gene Name	CDH5
UniProt Synonym Gene Names	VE-cadherin
NCBI Protein Information	cadherin-5

UniProt Comments for CDH5	CDH5: Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton. Acts in concert with KRIT1 to establish and maintain correct endothelial cell polarity and vascular lumen. These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B. Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction. Interacts via cadherin 5 domain with PTPRB. Interacts with TRPC4. Interacts with KRIT1. Endothelial tissues and brain. Protein type: Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 16q21 Cellular Component: cell junction; cell surface; cell-cell adherens junction; intercellular junction; membrane; plasma membrane Molecular Function: beta-catenin binding; protein binding; receptor binding Biological Process: intercellular junction assembly; transforming growth factor beta receptor signaling pathway
Research Articles on CDH5	**1.** High serum VE-cadherin expression is associated with non-alcoholic fatty liver disease.
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