CDH3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDH3, Polyclonal Antibody
Full Product Name	CDH3 Conjugated Antibody
Product Gene Name	anti-CDH3 antibody
Product Synonym Names	CDHP; HJMD; PCAD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total CDH3 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	86,552 Da
OMIM	114021
3D Structure	ModBase 3D Structure for P22223
Immunogen	Fusion protein corresponding to residues near the C terminal of human cadherin 3, type 1, P-cadherin (placental)
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CDH3 antibody	Most Applications
Application Notes for anti-CDH3 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CDH3 antibody	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congential hypotrichosis with juvenile macular dystrophy.
Other Notes	Small volumes of anti-CDH3 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 CDH3 purchase	MBS9446334 is an antibody targeting CDH3. Also known as CDH3 Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH3. It may not necessarily be applicable to this product.

NCBI GI #	15680220
NCBI GeneID	1001
NCBI Accession #	BC014462
UniProt Primary Accession #	P22223
UniProt Secondary Accession #	Q05DI6; B2R6F4
UniProt Related Accession #	P22223
NCBI Official Full Name	Homo sapiens cadherin 3, type 1, P-cadherin (placental), mRNA
NCBI Official Synonym Full Names	cadherin 3
NCBI Official Symbol	CDH3
NCBI Official Synonym Symbols	CDHP; HJMD; PCAD
UniProt Protein Name	Cadherin-3
UniProt Synonym Protein Names	Placental cadherin
UniProt Gene Name	CDH3
UniProt Synonym Gene Names	CDHP; P-cadherin
UniProt Entry Name	CADH3_HUMAN
NCBI Protein Information	cadherin-3
NCBI Summary for CDH3	This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. 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. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene are associated with hypotrichosis with juvenile macular dystrophy and ectodermal dysplasia, ectrodactyly, and macular dystrophy syndrome (EEMS). [provided by RefSeq, Nov 2015]
UniProt Comments for CDH3	CDH3: 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. Interacts with CDCP1. Expressed in some normal epithelial tissues and in some carcinoma cell lines. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: cell-cell adherens junction; cytoplasm; integral to membrane; plasma membrane Molecular Function: calcium ion binding Biological Process: response to drug; positive regulation of insulin-like growth factor receptor signaling pathway; intercellular junction assembly and maintenance; wound healing; positive regulation of melanin biosynthetic process; Wnt receptor signaling pathway through beta-catenin; retinal homeostasis; negative regulation of transforming growth factor-beta2 production; hair cycle process; cell-cell adhesion; positive regulation of monophenol monooxygenase activity; negative regulation of catagen; visual perception; keratinization; cell adhesion; homophilic cell adhesion Disease: Ectodermal Dysplasia, Ectrodactyly, And Macular Dystrophy Syndrome; Hypotrichosis, Congenital, With Juvenile Macular Dystrophy

Research Articles on CDH3	**1.** The P-cadherin structure and packing arrangement provide new and valuable information towards the complete structural characterization of the cadherin dimerization pathway.
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