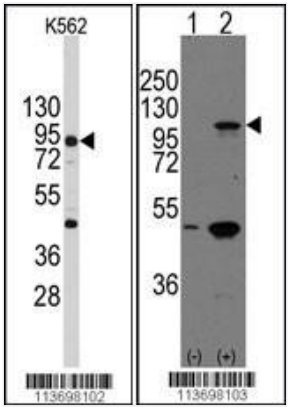
CDH3 Antibody – Rabbit Polyclonal

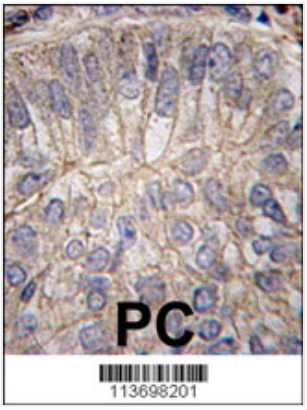
PRODUCT OVERVIEW

Product Name	CDH3, Polyclonal Antibody
Full Product Name	CDH3, CT (CDH3, CDHP, Cadherin-3, Placental cadherin) (FITC)
Product Gene Name	anti-CDH3 antibody
Product Synonym Names	CDH3; CDHP; Cadherin-3; Placental cadherin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Peptide Immunoaffinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	91,418 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (68678151..68732957). Location: 16q22.1
OMIM	114021
3D Structure	ModBase 3D Structure for P22223
Immunogen	CDH3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 666~696 amino acids from the C-terminal region of human CDH3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CDH3 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH3 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CDH3 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-CDH3 antibody	CDH3 is a classical cadherin from the cadherin superfamily. It is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in the gene encoding CDH3 have been associated with congential hypotrichosis with juvenile macular dystrophy.
Product References and Citations for anti-CDH3 antibody	Indelman, M., Clin. Exp. Dermatol. 32 (2), 191-196 (2007). Paredes, J., Clin. Cancer Res. 11 (16), 5869-5877 (2005).

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	MBS6284174 is an antibody targeting CDH3. Also known as CDH3, CT (CDH3, CDHP, Cadherin-3, Placental cadherin) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CDH3 antibody
Western blot analysis of anti-CDH3 Antibody (C-term) in K562 cell line lysates (35ug/lane). CDH3(arrow) was detected using the purified Pab. Western blot analysis of CDH3 (arrow) using rabbit polyclonal CDH3 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CDH3 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-CDH3 antibody
Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with CDH3 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	14589891
NCBI GeneID	1001
NCBI Accession #	NP_001784.2
UniProt Primary Accession #	P22223
UniProt Secondary Accession #	Q05DI6; B2R6F4
UniProt Related Accession #	P22223
GenBank Nucleotide #	NM_001793.4
NCBI Official Full Name	cadherin-3 preproprotein
NCBI Official Synonym Full Names	cadherin 3, type 1, P-cadherin (placental)
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; calcium-dependent adhesion protein, placental

NCBI Summary for CDH3	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. [provided by RefSeq, Jul 2008]
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.** LA carcinomas and carcinomas negative for basal markers were more often negative for epithelial cell adhesion molecule (Ep-CAM) and P-cadherin
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