E-Cadherin (CDH1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	E-Cadherin (CDH1), Polyclonal Antibody
Full Product Name	E-Cadherin (CD324) Conjugated Antibody
Product Gene Name	anti-CDH1 antibody
Product Synonym Names	CDH1; CDHE; UVO
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
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 level of total E-Cadherin protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	97,456 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (68771195..68869444). Location: 16q22.1
OMIM	137215
3D Structure	ModBase 3D Structure for P12830
Immunogen	Peptide sequence around aa.864~868 (E-W-G-N-R) derived from Human E-Cadherin.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CDH1 antibody	Most Applications
Application Notes for anti-CDH1 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-CDH1 antibody	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. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.
Other Notes	Small volumes of anti-CDH1 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 CDH1 purchase	MBS9438848 is an antibody targeting CDH1. Also known as E-Cadherin (CD324) Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH1. It may not necessarily be applicable to this product.

NCBI GI #	4757960
NCBI GeneID	999
NCBI Accession #	NP_004351.1
UniProt Primary Accession #	P12830
UniProt Secondary Accession #	Q13799; Q14216; Q15855; Q16194; Q4PJ14; A8K1U7
UniProt Related Accession #	P12830
GenBank Nucleotide #	NM_004360.3
NCBI Official Full Name	cadherin-1 preproprotein
NCBI Official Synonym Full Names	cadherin 1, type 1, E-cadherin (epithelial)
NCBI Official Symbol	CDH1
NCBI Official Synonym Symbols	UVO; CDHE; ECAD; LCAM; Arc-1; CD324
UniProt Protein Name	Cadherin-1
UniProt Synonym Protein Names	CAM 120/80; Epithelial cadherin; E-cadherin; Uvomorulin
Protein Family	Anaphase-promoting complex
UniProt Gene Name	CDH1
UniProt Synonym Gene Names	CDHE; UVO; E-cadherin
UniProt Entry Name	CADH1_HUMAN
NCBI Protein Information	cadherin-1; CAM 120/80; E-Cadherin; uvomorulin; cell-CAM 120/80; epithelial cadherin; cadherin 1, E-cadherin (epithelial); calcium-dependent adhesion protein, epithelial
NCBI Summary for CDH1	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. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. [provided by RefSeq, Jul 2008]

UniProt Comments for CDH1	CDH1: a single-pass type I membrane protein, and calcium dependent cell adhesion proteins. It is a ligand for integrin alpha-E/beta-7, and it colocalizes with DLG7 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Defects in CDH1 are involved in dysfunction of the cell-cell adhesion system, triggering cancer invasion (gastric, breast, ovary, endometrium and thyroid) and metastasis. Has a potent invasive suppressor role. Protein type: Cell adhesion; Motility/polarity/chemotaxis; Membrane protein, integral; Ubiquitin ligase Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: apical junction complex; internal side of plasma membrane; focal adhesion; cell surface; lateral loop; basolateral plasma membrane; extracellular region; integral to membrane; trans-Golgi network; catenin complex; actin cytoskeleton; cell-cell adherens junction; apical part of cell; perinuclear region of cytoplasm; cytoplasm; plasma membrane; nerve terminal; cell junction; endosome; lateral plasma membrane Molecular Function: protein domain specific binding; protein binding; gamma-catenin binding; beta-catenin binding; GTPase activating protein binding; calcium ion binding; cell adhesion molecule binding; ankyrin binding; glycoprotein binding; protein phosphatase binding Biological Process: response to drug; intercellular junction assembly and maintenance; extracellular matrix organization and biogenesis; regulation of immune response; apoptosis; response to toxin; positive regulation of transcription, DNA-dependent; regulation of caspase activity; trophectodermal cell differentiation; regulation of water loss via skin; extracellular matrix disassembly; cell-cell adhesion; synaptogenesis; sensory perception of sound; pituitary gland development; calcium-dependent cell-cell adhesion; protein metabolic process; positive regulation of transcription factor import into nucleus; negative regulation of cell-cell adhesion; homophilic cell adhesion; protein homooligomerization; neurite development; negative regulation of epithelial cell proliferation; cell structure disassembly during apoptosis Disease: Gastric Cancer, Hereditary Diffuse; Prostate Cancer; Breast Cancer; Ovarian Cancer; Endometrial Cancer
Research Articles on CDH1	**1.** E-cadherin expression in adenocarcinoma cells is regulated by slug.
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