

Mouse anti-Human E-Cadherin / Cadherin-1 Monoclonal Antibody | anti-CDH1 antibody

Mouse anti E-Cadherin / Cadherin-1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77470	Mouse	Human	Immunohistochemistry, Immunocytochemistry, Immunoblot, Western Blot, Flow Cytometry, Functional Assay

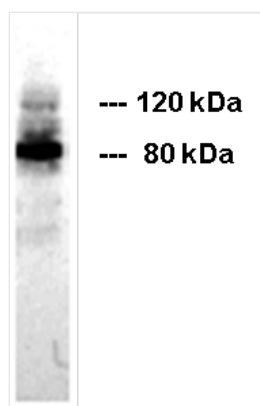
PRODUCT SYNONYMS

E-Cadherin / Cadherin-1; Monoclonal Antibody; Mouse anti E-Cadherin / Cadherin-1; anti-CDH1 antibody

PRODUCT SPECIFICATIONS

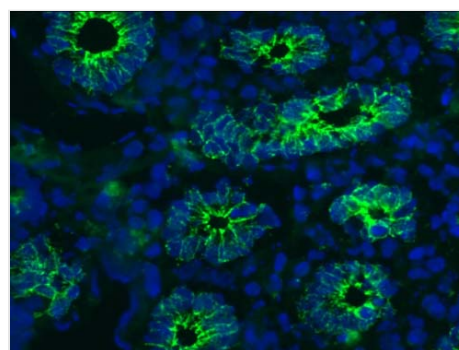
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	MB2
Specificity	MB2 recognizes both the 120 kD E-cadherin and its 80 kD trypsin-resistant extracellular part. MB2 is a functional antibody in that it inhibits cell-cell adhesion.
Form/Format	Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-CDH1 antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), IB (Immunoblot), FCM/FACS (Flow Cytometry)
Source Note	MB2 is a Mouse monoclonal IgG2b antibody derived by fusion of NS0 Mouse myeloma cells with spleen cells from a BABL/c Mouse immunized with MCF-7/AZ cells expressing E-cadherin at their cell surface.
Product Type	Primary antibodies
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



Application Data

Figure 2: Western blot on MCF-7 cellular extract: moderate reactivity with the 120 kDa full length protein and strong reactivity with the 80 kDa extracellular part of E-Cadherin



Application Data

Figure 1: Immunohistochemistry on frozen sections of small intestine: positive staining of the cell-cell adhesion molecules between the epithelial cells of the crypts.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH1 antibody	Cadherins constitute a family of transmembrane glycoproteins involved in Ca2+-dependent cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. Cadherins are divided into type I and type II subgroups. Type I cadherins include epithelial cadherin (E-cadherin, cadherin-1 or uvomorulin), neural cadherin (N-cadherin or cadherin-2), placental cadherin (P-cadherin or cadherin-3) and retinal cadherin (R-cadherin or cadherin-4), whereas kidney cadherin (K-cadherin or cadherin-6) and osteoblast cadherin (OB-cadherin or cadherin-11) are type II cadherins. One of the best characterized cadherins is E-cadherin, a 120 kD transmembrane glycoprotein consisting of an 80 kD extracellular and a 40 kD transmembrane and cytoplasmic part. The extracellular domains of E-cadherin are responsible for calcium binding which allows for homophilic interaction with other E-cadherin molecules on the same cell and neighbouring cells. In addition, E-cadherin can interact heterophilically with integrin alphaEbeta7. The cytoplasmic domain of E-cadherin is linked to the actin cytoskeleton through the associated cytoplasmic Catenin proteins, thus establishing a complex localized to adherens junctions. In carcinomas E-cadherin is frequently downregulated, which is consistent with its function of an invasion suppressor in normal epithelia.
Product Categories/Family for anti-CDH1 antibody	Cell adhesion; Cancer; Cell adhesion
References	Bracke, M. E., Vyncke, B. M., Bruyneel, E. A., Vermeulen, S. J., De Bruyne, G. K., Van Larebeke, N. A., Vleminckx, K., Van Roy, F. M., and Mareel, M. M. (1993). Insulin-like growth factor I activates the invasion suppressor function of E-cadherin in MCF-7 Human mammary carcinoma cells in vitro, Br J Cancer 68, 282-9. Steelant, W. F., Goeman, J. L., Philippe, J., Oomen, L. C., Hilkens, J., Krzewinski-Recchi, M. A., Huet, G., Van der Eycken, J., Delannoy, P., Bruyneel, E. A., and Mareel, M. M. (2001). Alkyl-lysophospholipid 1-O-octadecyl-2-O-methyl-glycerophosphocholine induces invasion through episialin-mediated neutralization of E- cadherin in Human mammary MCF-7 cells in vitro, Int J Cancer 92, 527-36. Rong, H., Boterberg, T., Maubach, J., Stove, C., Depypere, H., Van Slambrouck, S., Serreyn, R., De Keukeleire, D., Mareel, M., and Bracke, M. (2001). 8-Prenylnaringenin, the phytoestrogen in hops and beer, upregulates the function of the E-cadherin/Catenin complex in Human mammary carcinoma cells, Eur J Cell Biol 80, 580-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757960
NCBI GeneID	999
NCBI Accession #	NP_004351.1
NCBI GenBank Nucleotide #	NM_004360.3
UniProt Accession #	P12830; Q13799; Q14216; Q15855; Q16194; Q4PJ14; Q9UII7; Q9UII8
Molecular Weight	97,456 Da
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
NCBI Protein Information	cadherin-1; CAM 120/80; E-Cadherin; uvomorulin; cell-CAM 120/80; OTTHUMP00000174868; epithelial cadherin; cadherin 1, E-cadherin (epithelial); calcium-dependent adhesion protein, epithelial
UniProt Protein Name	Cadherin-1
UniProt Gene Name	CDH1
UniProt Synonym Gene Names	CDHE; UVO
UniProt Entry Name	CADH1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

