

E-cadherin Monoclonal Antibody (6F9)

Catalog Number MA1-06302

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	<div><div>Tested Applications</div><div>Dilution *</div></div>	
Class	Monoclonal		
Type	Antibody		
Clone	6F9		
Immunogen	E-cadherin derived from human vulva carcinoma cells.	Immunohistochemistry (Frozen) (IHC (F))	1:25-1:100
Conjugate	Unconjugated	Western Blot (WB)	1:50-1:500
Form	Liquid	Immunocytochemistry (ICC/IF)	1:25-1:100
Concentration	1 mg/mL	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA1-06302 detects E-cadherin in human samples. MA1-06302 has successfully been used in Western blotting, immunocytochemistry on fixed cells (methanol fixation) and immunohistochemistry (frozen sections). By Western blotting, it detects a ~120 kDa protein representing E-cadherin. The MA1-06302 immunogen is affinity purified ~80 kD extracellular fragments of E-cadherin derived from tryptic digestion of A-431 human vulva carcinoma cells. Store at 4°C or in small aliquot s at -20°C.

Background/Target Information

E-Cadherin (epithelial cadherin) is a classical cadherin from the cadherin (alcium dependent adhesion protein) 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. E-cadherin plays a central role in the growth and development of cells by controlling tissue architecture, and maintenance of tissue integrity. In humans, E-cadherin is encoded by the CDH1 gene present on chromosome 16. Studies have demonstrated that reduction and/or loss of E-cadherin expression in carcinomas correlates positively with the potential of these tumors for invasion and metastasis.

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