

Product datasheet for **UM800182CF**

E Cadherin (CDH1) Mouse Monoclonal Antibody [Clone ID: UMAB293]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB293
Applications:	IHC
Recommended Dilution:	IHC 1:300
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of human E-Cadherin(CDH1) (NP_004351) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Concentration:	1mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	97.46 kDa
Gene Name:	cadherin 1
Database Link:	NP_004351 Entrez Gene 999 Human P12830



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Background:

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. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression 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. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015]

Synonyms:

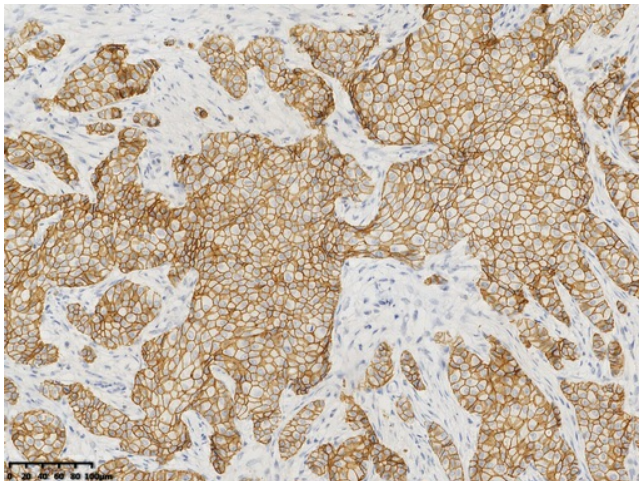
Arc-1; BCDS1; CD324; CDHE; ECAD; LCAM; UVO

Protein Families:

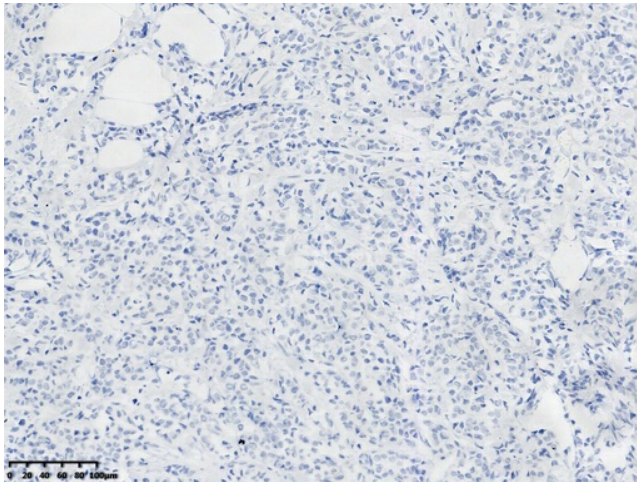
Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

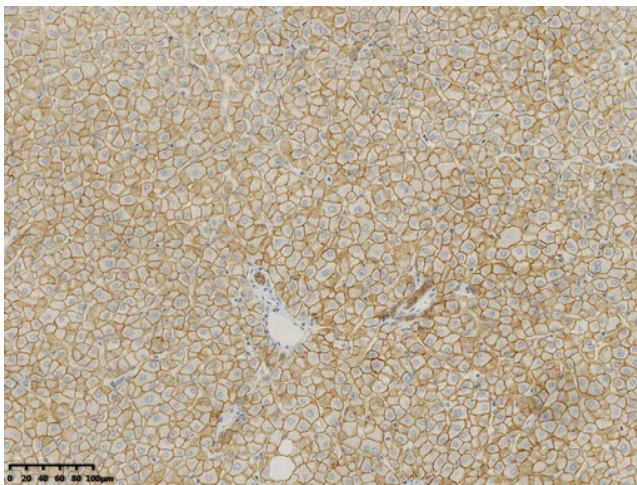
Adherens junction, Bladder cancer, Cell adhesion molecules (CAMs), Endometrial cancer, Melanoma, Pathogenic Escherichia coli infection, Pathways in cancer, Thyroid cancer

Product images:

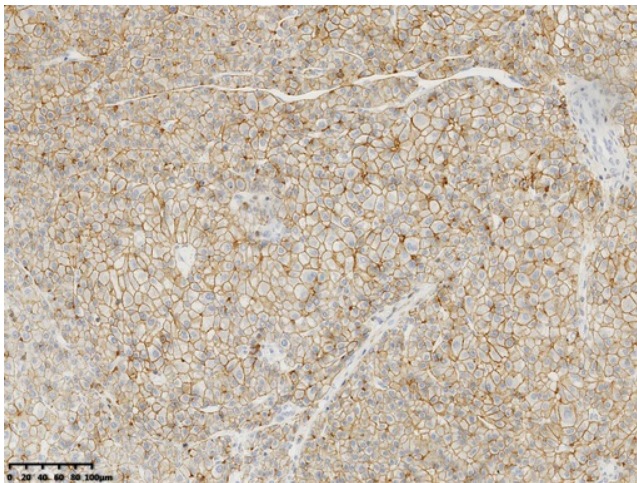
IHC staining of FFPE human breast duct carcinoma tissue using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



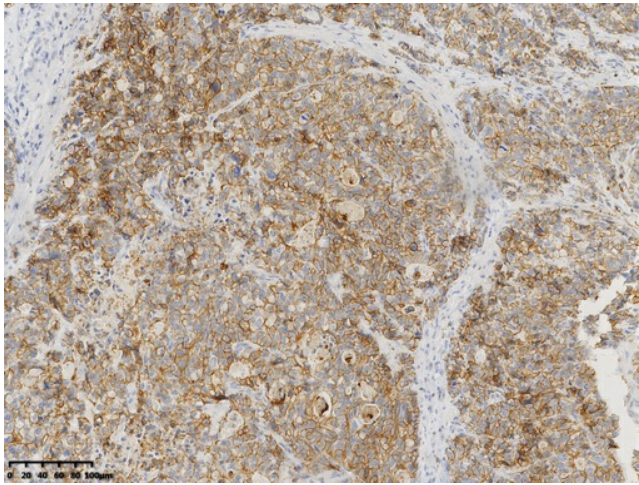
IHC staining of FFPE human lobular breast cancer tissue using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



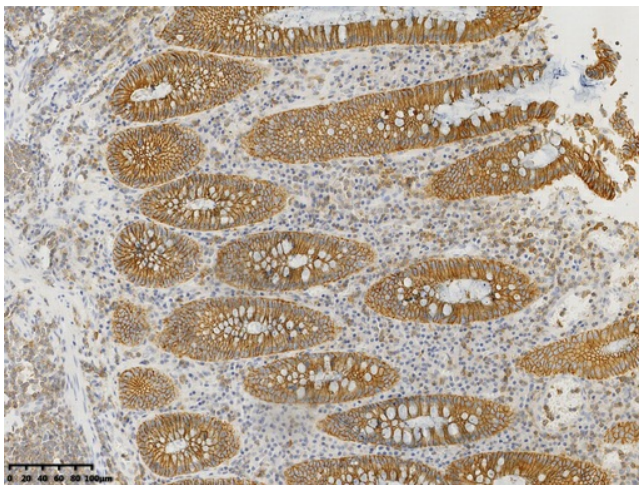
IHC staining of FFPE human liver tissue with in the normal limits using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human liver cancer tissue using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human gastric cancer using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human appendix tissue with in the normal limits using anti-E-Cadherin(CDH1) mouse monoclonal antibody ([UM800182]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 9.0 ([B06C-50]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.