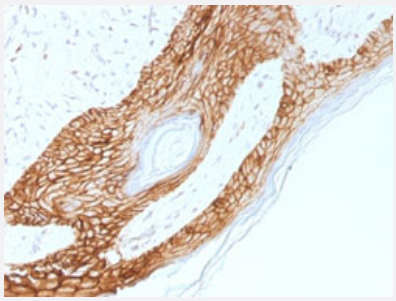
CDH1 monoclonal antibody, clone 4A2

Catalog # MAB15076 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human skin with CDH1 monoclonal antibody, clone 4A2 (Cat # MAB15076).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human CDH1.
Immunogen	Recombinant protein corresponding to full length human CDH1.
Host	Mouse
Theoretical MW (kDa)	120-80, 135
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).

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Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human skin with CDH1 monoclonal antibody, clone 4A2 (Cat # MAB15076).

- Immunofluorescence
- Flow Cytometry
- Western Blot

Gene Info — CDH1

Entrez GeneID	999
Protein Accession#	P12830
Gene Name	CDH1
Gene Alias	Arc-1, CD324, CDHE, ECAD, LCAM, UVO
Gene Description	cadherin 1, type 1, E-cadherin (epithelial)
Omim ID	137215 192090
Gene Ontology	Hyperlink
Gene Summary	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 trans membrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated w ith gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute t o 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 re quired for internalization. Identified transcript variants arise from mutation at consensus splice site s. [provided by RefSeq
Other Designations	cadherin 1, E-cadherin (epithelial)|cadherin 1, type 1|calcium-dependent adhesion protein, epithel ial|cell-CAM 120/80|uvomorulin

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Publication Reference

- E-cadherin phosphorylation by protein kinase D1/protein kinase C{mu} is associated with altered cellular aggregation and motility in prostate cancer.

  Jaggi M, Rao PS, Smith DJ, Wheelock MJ, Johnson KR, Hemstreet GP, Balaji KC.

  Cancer Research 2005 Jan; 65(2):483.

  Application: IF, IP, KA, WB-Ce, WB-Tr, Human, C4-2, LNCaP cells

- The role of calpain in the proteolytic cleavage of E-cadherin in prostate and mammary epithelial cells.

  Rios-Doria J, Day KC, Kuefer R, Rashid MG, Chinnaiyan AM, Rubin MA, Day ML.

  The Journal of Biological Chemistry 2003 Jan; 278(2):1372.

  Application: IP, WB-Tr, Human, SK-Ecad, LNCaP cells

Pathway

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

Disease

- Adenocarcinoma
- Asthma
- Breast cancer
- Breast Neoplasms
- Bronchiolitis

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- Carcinoma
- Cleft Lip
- Cleft Palate
- Colitis
- Colorectal Neoplasms
- Crohn Disease
- Disease Progression
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glaucoma
- Head and Neck Neoplasms
- Helicobacter Infections
- Hepatitis B
- Infant
- Kidney Neoplasms
- Laryngeal Neoplasms
- Leiomyoma
- Liver Neoplasms
- Low Tension Glaucoma
- Lung Neoplasms
- Lymphatic Metastasis
- Meningeal Neoplasms
- Meningioma
- Mouth Neoplasms
- Nasopharyngeal Neoplasms

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- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplastic Syndromes
- Obesity
- Ocular Hypertension
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Stomach Neoplasms
- Tooth Abnormalities
- Ureteral Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi
- Urologic Neoplasms
- Uterine Neoplasms
- Werner syndrome

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