E-Cadherin Antibody

Catalog No: #48355

Package Size: #48355-1 50ul #48355-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

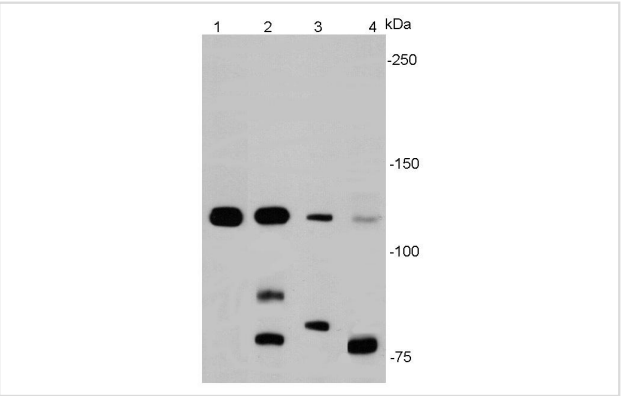
Description

Product Name	E-Cadherin Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	A0-G11-2
Purification	ProA affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Human;Mouse
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Arc 1 antibody CADH1_HUMAN antibody Cadherin 1 antibody cadherin 1 type 1 E-cadherin antibody Cadherin1 antibody CAM 120/80 antibody CD 324 antibody CD324 antibody CD324 antigen antibody cdh1 antibody CDHE antibody E-Cad/CTF3 antibody E-cadherin antibody ECAD antibody Epithelial cadherin antibody epithelial calcium dependant adhesion protein antibody LCAM antibody Liver cell adhesion molecule antibody UVO antibody Uvomorulin antibody
Accession No.	Swiss-Prot#:P09803
Calculated MW	130 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

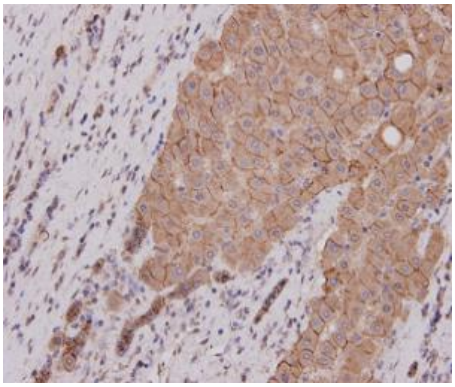
Application Details

WB: 1:500-1:1000IHC: 1:200 ICC: 1:200 FC: 1:50-1:100

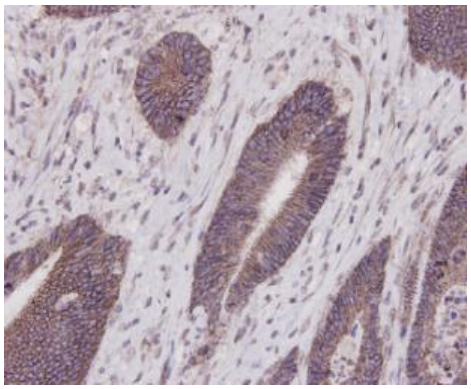
Images



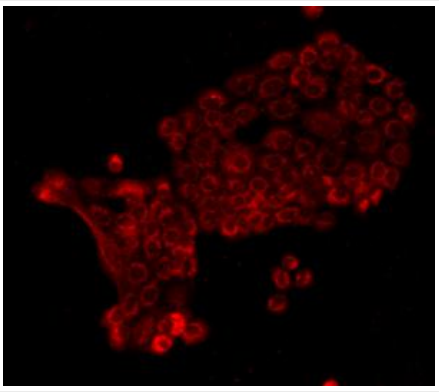
Western blot analysis of E-cadherin on different cell lysates using anti- E-cadherin antibody at 1/1000 dilution. Positive control:
Lane 1: A431
Lane 2: SW480
Lane 3: MCF-7
Lane 4: Hela



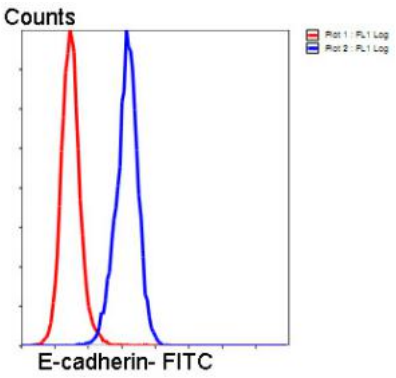
Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using E-Cadherin antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using E-Cadherin antibody. Counter stained with hematoxylin.



ICC staining E-Cadherin in A431 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with E-Cadherin antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti mouse IgG (FITC) was used as the secondary antibody

Background

E-cadherin (epithelial) is the most well-studied member of the cadherin family. It consists of 5 cadherin repeats (EC1 ~ EC5) in the extracellular domain, one transmembrane domain, and an intracellular domain that binds p120-catenin and beta-catenin. The intracellular domain contains a highly-phosphorylated region vital to beta-catenin binding and, therefore, to E-cadherin function. Loss of E-cadherin function or expression has been implicated in cancer progression and metastasis. E-cadherin downregulation decreases the strength of cellular adhesion within a tissue, resulting in an increase in cellular motility. This in turn may allow cancer cells to cross the basement membrane and invade surrounding tissues. E-cadherin is also used by pathologists to diagnose different kinds of breast cancer.

References

1.Eger A, et al. (Mar 2005). "DeltaEF1 is a transcriptional repressor of E-cadherin and regulates epithelial plasticity in breast cancer cells." Oncogene 24 (14): 2375-85.

2. Liu YN, et al. (Dec 2005). "Regulatory mechanisms controlling human E-cadherin gene expression." Oncogene 24 (56): 8277-90.

3. Lombaerts M, et al. (Mar 2006). "E-cadherin transcriptional downregulation by promoter methylation but not mutation is related to epithelial-to-mesenchymal transition in breast cancer cell lines." Br J Cancer 94 (5): 661-71.

Published Papers

Jie Guo;Suhan Zhou;Honghong Wang;Xingyu Qiu;Fang Dong;Shan Jiang;Nan Xu;Yu Cui;Ruisheng Liu;Pengyun Li;Zufu Ma;Liang Zhao;En Yin Lai el at., ADAMTS13 attenuates renal fibrosis by suppressing thrombospondin 1 mediated TGF-β1/Smad3 activation., , (2025)

PMID:39929281

Note: This product is for in vitro research use only and is not intended for use in humans or animals.