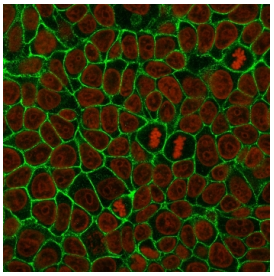
E-Cadherin Antibody [clone 4A2] (V3232)

Catalog No.	Formulation	Size
V3232-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3232-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3232SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

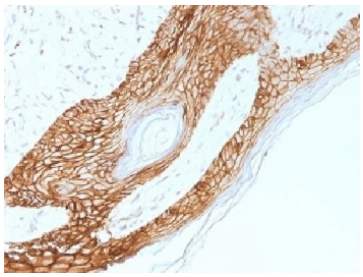
Citations (23)

Bulk quote request

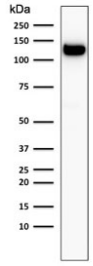
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	4A2
Purity	Protein G affinity chromatography
UniProt	P12830
Localization	Cytoplasmic, membranous
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-4ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This E-Cadherin antibody is available for research use only.



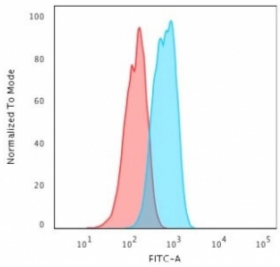
Immunofluorescent staining of human MCF7 cells with E-Cadherin antibody (green, clone 4A2) and Reddot nuclear stain (red).



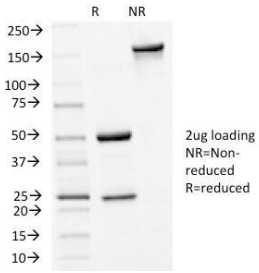
IHC testing of FFPE human skin with E-Cadherin antibody (clone 4A2). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.



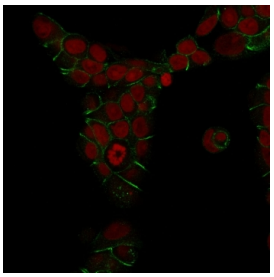
Western blot testing of human MCF-7 cell lysate with E-Cadherin antibody (clone 4A2). Expected molecular weight: 135 kDa (precursor), 80-120 kDa (mature, depending on glycosylation level).



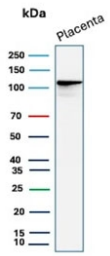
Flow cytometry testing of human MCF7 cells with E-Cadherin antibody (clone 4A2); Red=isotype control, Blue= E-Cadherin antibody.



SDS-PAGE analysis of purified, BSA-free E-Cadherin antibody (clone 4A2) as confirmation of integrity and purity.



Immunofluorescent staining of methanol-fixed human MCF7 cells with E-Cadherin antibody (green, clone 4A2) and Reddot nuclear stain (red).



Western blot testing of human placental tissue lysate with E-Cadherin antibody (clone 4A2). Expected molecular weight: 135 kDa (precursor), 80-120 kDa (mature, depending on glycosylation level).

Description

Recognizes a protein of 80-120kDa, identified as E-cadherin/CDH1. Cadherins comprise a family of Ca2+-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH2 terminal repeats. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as b-catenin, to regulate cadherin function. E-cadherin plays an important role in epithelial cell adhesion. A decreased expression of E-cadherin is associated with metastatic potential and poor prognosis in breast cancer, prostate and esophageal cancer. In combination with p120 Catenin, it is useful for the differentiation between ductal (E-cadherin +) and lobular (E-cadherin -) breast carcinomas. It may also help in diagnosis of mesothelioma.

Application Notes

Optimal dilution of the E-Cadherin antibody should be determined by the researcher.

Immunogen

A recombinant human protein was used as the immunogen for the E-Cadherin antibody.

Storage

Store the E-Cadherin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).