Data Sheet (Cat.No.TMAY-00460F)

TargetMol

Anti-E-Cadherin/Cadherin-1 Antibody-FITC (7W893)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	FITC
Clone:	7W893
Purification:	Protein A

Applications

Verified Activity:	1. Profile of anti-E-cad (CD324) reactivity on MCF-7 cells analyzed by flow cytometry. 2. Immunofluorescence staining of Human E-CAD in MCF7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human MCF7 monoclonal antibody (FITC-conjugated, 10 μg/ml) at 37°C 1 hour, and counterstained with DAPI (blue). Positive staining was localized to plasma membrane.
Application:	FCM
Recommended	10 μl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CDH1 protein
Antigen Species:	Human
Synonyms:	UVO;Arc-1;CD324;CDHE;LCAM;E-cad;E-Cadherin;cadherin 1, type 1, E-cadherin (epithelial); CDH1;ECAD
Biology Area:	Hemangioblast Markers, Tumor Suppressors

Research Background

Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute to the sorting of heterogeneous cell type. E-cadherin (E-Cad), also known as CDH1 and CD324, is a calcium-dependent cell adhesion molecule the intact function of which is crucial for the establishment and maintenance of epithelial tissue polarity and structural integrity. Mutations in CDH1 occur in diffuse type gastric cancer, lobular breast cancer, and endometrial cancer. In human cancers, partial or complete loss of E-cadherin expression correlates with malignancy. During apoptosis or with calcium influx, E-Cad is cleaved by the metalloproteinase to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD/CTF3), respectively. E-Cad has been identified as a potent invasive suppressor, as downregulation of E-cadherin expression is involved in dysfunction of the cell-cell adhesion system, and often correlates with strong invasive potential and poor prognosis of human carcinomas.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481