Data Sheet (Cat.No.TMAY-00460)

TargetMol

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

Product Details

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

Applications

Verified Activity:	Flow cytometric analysis of human E-cad(CD324) expression on MCF-7 cells. Cells were stained with purified anti-Human E-cad(CD324), then a FITC-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human E-Cadherin / CDH1 / E-cad / CD324 protein
Antigen Species:	Human
Synonyms:	E-Cadherin;Arc-1;E-cad;LCAM;cadherin 1, type 1, E-cadherin (epithelial);CDHE;CDH1;CD324; ECAD;UVO
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.

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