Data Sheet (Cat.No.TMAY-03395)

TargetMol

Anti-E-Cadherin/Cadherin-1 Antibody (8Y768)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	8Y768
Purification:	Protein A

Applications

Verified Activity:	Mouse CDH1 was immunoprecipitated using: -Lane A:0.5 mg MCF-7 Whole Cell Lysate. -Lane B:0.5 mg A431 Whole Cell Lysate. -4 µL anti-Mouse CDH1 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose. -Primary antibody: -Anti-Mouse CDH1 rabbit monoclonal antibody, at 1:100 dilution. -Secondary antibody: -Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. -Developed using the odyssey technique. -Performed under reducing conditions. -Predicted band size: 130 kDa. -Observed band size: 130 kDa
Application:	IP
Recommended	IP: 4-8 µL/mg of lysate

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: Mouse E-Cadherin/CDH1/E-cad/CD324 Protein (TMPY-02137)
Antigen Species:	Mouse
Synonyms:	E-Cadherin;Arc-1;CDH1;E-cad;cadherin 1, type 1, E-cadherin (epithelial);CDHE;UVO;CD324;LCAM;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

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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