Data Sheet (Cat.No.TMAY-01506)

TargetMol

Anti-N Cadherin Antibody (3L448)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3L448
Purification:	Protein A

Applications

Verified Activity:	Immunofluorescence staining of Human CDH2 in Hela cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-Human CDH2 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to membrane.
Application:	ELISA,ICC/IF
Recommended	ELISA: 1:5000-1:10000; ICC-IF: 1:20-1:100

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 N-Cadherin / CD325 / CDH2 Protein (TMPY-01143)
Antigen Species:	Human
Synonyms:	Ncad;cadherin 2, type 1, N-cadherin (neuronal);CDHN;N-cadherin
Biology Area:	Early Mesodermal Lineage Markers

Research Background

Cadherins are calcium-dependent cell adhesion proteins, and they preferentially interact with themselves in a homophilic manner in connecting cells. Cadherin 2 (CDH2), also known as N-Cadherin (neuronal) (NCAD), is a single-pass transmembrane protein and a cadherin containing 5 cadherin domains. N-Cadherin displays a ubiquitous expression pattern but with different expression levels between endocrine cell types. CDH2 (NCAD) has been shown to play an essential role in normal neuronal development, which is implicated in an array of processes including neuronal differentiation and migration, and axon growth and fasciculation. In addition, N-Cadherin expression was upregulated in human HSC during activation in culture, and function or expression blocking of N-Cadherin promoted apoptosis. During apoptosis, N-Cadherin was cleaved into 20-100 kDa fragments. It may provide a novel target for therapies that are directed toward intimal proliferative disorders, including restenosis and vascular bypass graft failure. N-Cadherin is associated with tumor aggressiveness and metastatic potential and may contribute to tumor progression.

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