Data Sheet (Cat.No.TMAY-01504)

TargetMol

Anti-N Cadherin Antibody (1T666)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1T666
Purification:	Protein A

Applications

Verified Activity:	Flow cytometry analysis of N-Cadherin on HeLa cells. HeLa cells were harvested with (Left) or without (Right) trypsinization [please note, the epitope is sensitive to trypsin] and stained with either purified Rabbit IgG isotype control (dashed line) or Rabbit Anti-Human CD325 antibody [solid line, and Clone 1T666 (upper), Clone 3E575 (bottom)] at matching concentrations, then a FITC-conjugated second step antibody.
Application:	ELISA,FCM
Recommended	ELISA: 1:5000-1:10000; 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 N-Cadherin / CD325 / CDH2 Protein (TMPY-01143)
Antigen Species:	Human
Synonyms:	CDHN;cadherin 2, type 1, N-cadherin (neuronal);Ncad;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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