Rabbit Anti-Human Cadherin 2, type 1, N-cadherin Monoclonal Antibody

Cat. No. CAB11508RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Cadherin 2, type 1, N-cadherin
Species	Human
Source	Rabbit
Antigen Description	Cadherins are calcium dependent cell adhesion proteins, and they preferentially interact with themselves in a homophilic manner in connecting cells. Human cadherin 2, type 1, N-cadherin (neuronal) (NCAD) , also known as CDH2, is a single-pass tranmembrane 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. N-cadherin cleavage occurred at a higher level in glioblastoma cells than in non-neoplastic astrocytes.
Specificity	Human N-Cadherin / CD325 / CDH2. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Human N-Cadherin / CD325 / CDH2 Protein

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Isotype	Rabbit IgG
Clone	A018
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Human CDH2 in WB. Using a DAB detection system, the detection limit for Human CDH2 is approximately 2 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions.ELISA: This antibody can be used at 0.1-0.2 μg/mL with the appropriate secondary reagents to detect Human CDH2. The detection limit for Human CDH2 is approximately 0.00975 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human N-Cadherin / CD325 / CDH2
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CDH2 cadherin 2, type 1, N-cadherin (neuronal) [Homo sapiens]
Official Symbol	CDH2
Synonyms	CDH2; cadherin 2, type 1, N-cadherin (neuronal); NCAD; cadherin-2; CD325; CDHN;

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	N cadherin; N-cadherin 1; neural cadherin; neural-cadherin; cadherin 2, N-cadherin (neuronal); calcium-dependent adhesion protein, neuronal; CDw325;
Gene ID	1000
mRNA Refseq	NM_001792
Protein Refseq	NP_001783
MIM	114020
UniProt ID	P19022
Chromosome Location	18q12.1
Pathway	Adherens junctions interactions, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; CDO in myogenesis, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem;
Function	RPTP-like protein binding; alpha-catenin binding; beta-catenin binding; calcium ion binding; gamma-catenin binding; protein kinase binding; protein phosphatase binding;

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