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orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-N-Cadherin (Tyr-820), Phosphospecific Antibody

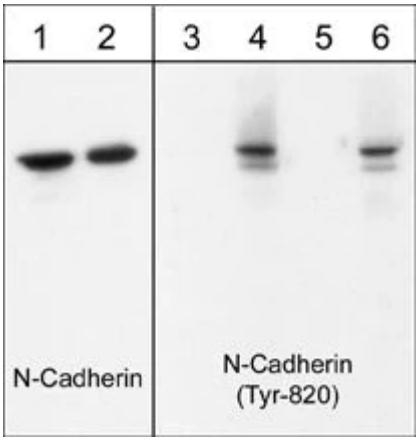
phosphosolutions ANTIBODIES THAT WORK

Product Details

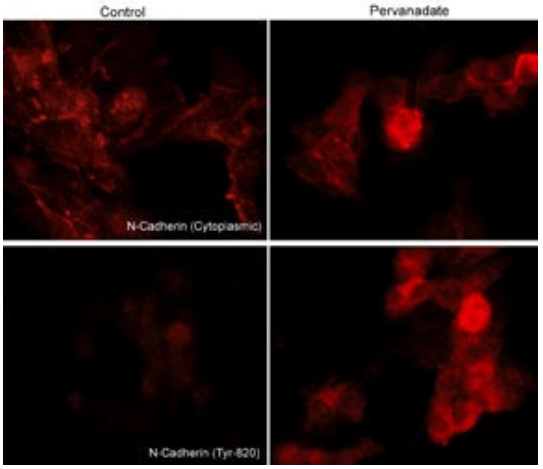
Available Variants	100 µL (SKU:CP1801)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	CDH2
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-N-Cadherin (Tyr-820) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding tyrosine 820 in human N-cadherin. This sequence is conserved in rat and mouse N-cadherin, and has three amino acid differences from the conserved site in R-cadherin.
Specificity	This antibody was cross-adsorbed to phospho-N-Cadherin (Tyr-860) and unphosphorylated N-cadherin (Tyr-820) peptides before affinity purification using phospho-N-cadherin (Tyr-820) peptide. The purified antibody detects a 130 kDa* band corresponding to N-cadherin in western blots of serum-starved human endothelial cells treated with pervanadate, but is not detected in untreated cells.
Molecular Weight	130
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P19022 UniProt Summary: Calcium-dependent cell adhesion protein; preferentially mediates homotypic cell-cell adhesion by dimerization with a CDH2 chain from another cell. Cadherins may thus contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural stem cell quiescence. Plays a role in cell-to-cell junction formation between pancreatic beta cells and neural crest stem (NCS) cells, promoting the formation of processes by NCS cells. Required for proper neurite branching. Required for pre- and postsynaptic organization. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density. May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to outgrowth tips.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Tyr-820
NCBI Gene ID	1000

Product Images



Western blot image of human endothelial cells untreated (lanes 1 & 3) or treated with pervanadate (1 mM) for 30 min (lanes 2, 4, 5 & 6). The blots were probed with anti-N-Cadherin (Cytoplasmic) (lanes 1 & 2) and anti-N-cadherin (Tyr-820) (lanes 3-6). The latter antibody was used in the presence of no peptide (lane 4), phospho-N-cadherin (Tyr-820) peptide (lane 5), or phospho-N-cadherin (Tyr-860) peptide (lane 6).



Immunocytochemical labeling of phosphorylated N-Cadherin in pervanadate-treated mouse C2C12. The cells were labeled with mouse monoclonal N-Cadherin (Cytoplasmic) and rabbit polyclonal N-Cadherin(Tyr-820) antibodies, then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.