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T-cadherin Antibody

Catalog # ASC10345

Product Information

Application	WB, IF, E
Primary Accession	O75355
Other Accession	NP_001248, 166197701
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	59105
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	T-cadherin antibody can be used for the detection of T-cadherin by Western blot at 0.5 - 1 □g/mL. Antibody can also be used for immunocytochemistry starting at 20 □g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID	956
Other Names	T-cadherin Antibody: HB6, CD39L3, NTPDase-3, Ectonucleoside triphosphate diphosphohydrolase 3, CD39 antigen-like 3, NTPDase 3, ectonucleoside triphosphate diphosphohydrolase 3
Target/Specificity	ENTPD3; At least two isoforms of T-cadherin are known to exist.
Reconstitution & Storage	T-cadherin antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	T-cadherin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ENTPD3 (HGNC:3365)
Function	Catalyzes the hydrolysis of nucleoside triphosphates (NTPs) and diphosphates (NDPs) (PubMed:10231536, PubMed:11300774, PubMed:15966724, PubMed:9675246). The enzyme sequentially removes phosphate groups in two successive steps, converting NTPs to nucleoside monophosphates (NMPs) via NDP intermediates (PubMed:10231536, PubMed:11300774, PubMed:15966724, PubMed:9675246). This activity contributes to the regulation of extracellular levels of nucleotides (PubMed:10231536, PubMed:11300774, PubMed:15966724,

	PubMed:9675246). Has a preference for the hydrolysis of ATP (PubMed:10231536). Does not hydrolyzes AMP (PubMed:9675246).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in adult brain, pancreas, spleen and prostate (PubMed:9676430). Moderate or low expression is seen in most tissues (PubMed:9676430). Not expressed in liver and peripheral blood leukocytes (PubMed:9676430).

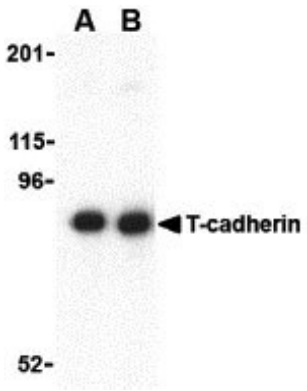
Background

T-cadherin Antibody: T-cadherin was initially identified as cadherin-type cell adhesion molecule expressed in various neuronal populations in a temporally and spatially restricted pattern during axon growth. T-cadherin is an atypical member of the cadherin family because it does not possess the typical transmembrane and cytoplasmic domains but is instead anchored to the plasma membrane by glycosylphosphatidylinositol (GPI) linkage. T-cadherin may play a role in malignant tumor development as loss of the chromosome locus containing the T-cadherin gene correlates with the development of a variety of cancers. Recently it has been shown that T-cadherin can act as a receptor for hexameric and high-molecular weight forms of adiponectin, suggesting that T-cadherin may also play a role in metabolic regulation.

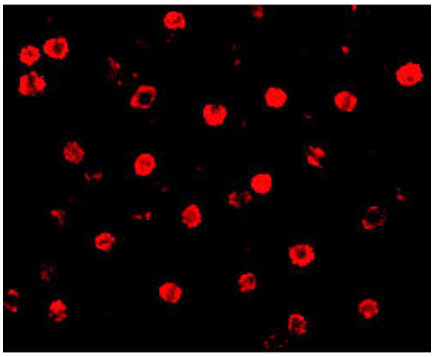
References

Ranscht B and Dours-Zimmerman MT. T-cadherin, a novel cadherin cell adhesion molecule in the nervous system lacks the conserved cytoplasmic region. Neuron 1991; 7:391-402.
Ivanov DB, Philippova MP, and Tkachuk VA. Structure and functions of classical cadherins Biochemistry (Moscow) 2001; 66:1175-66.
Takeuchi T, Misaki A, Chen BK, et al. H-cadherin expression in breast cancer. Histopathology 1999; 35:87-88.
Sato M, Mori Y, Sakurada A, et al. The H-cadherin (CDH13) gene is inactivated in human lung cancer. Hum. Gen. 1998; 103:96-101.

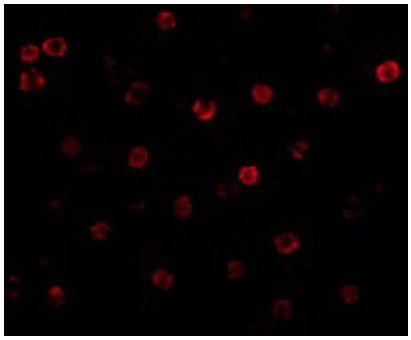
Images



Western blot analysis of T-cadherin in 3T3 lysate with T-cadherin antibody at (A) 0.5 and (B) 1 µg/mL.



Immunofluorescence of T-cadherin in K562 cells with T-cadherin antibody at 20 µg/mL.



Immunofluorescence of T-cadherin in 3T3 cells with T-cadherin antibody at 2 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.