

Datasheet for 600-401-FA0**T-cadherin Antibody****Overview**

Description:	Anti-T-cadherin (RABBIT) Antibody - 600-401-FA0
Item No.:	600-401-FA0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	T-cadherin Antibody, HB6, CD39L3, NTPDase-3, Ectonucleoside triphosphate diphosphohydrolase 3, CD39 antigen-like 3, NTPDase 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ENTPD3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-T-cadherin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the N-terminus of human T-cadherin.
Purity/Specificity:	Anti-T-cadherin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with T-cadherin from other sources has not been determined.
Relevant Links:	• UniProtKB - O75355 • GeneID - 956 • NCBI - NP_001239.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-T-cadherin Antibody has been tested for use in ELISA, Western Blotting, immunohistochemistry, immunocytochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 59 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5-1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

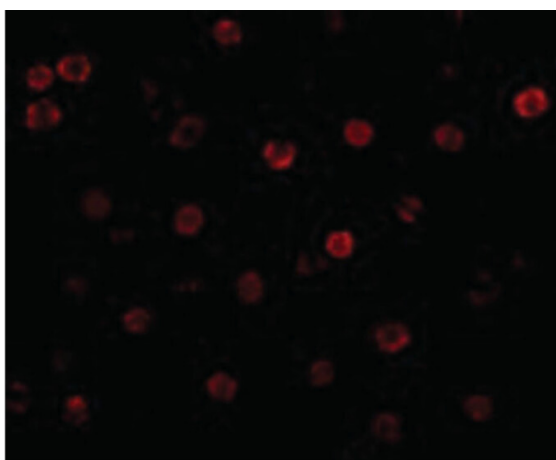
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

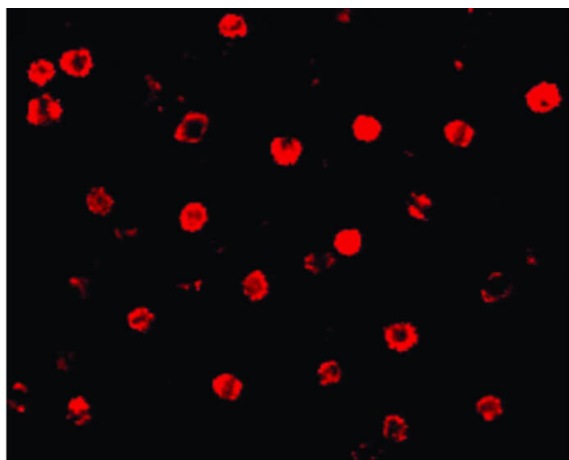
Expiration: Expiration date is one (1) year from date of receipt.

Images



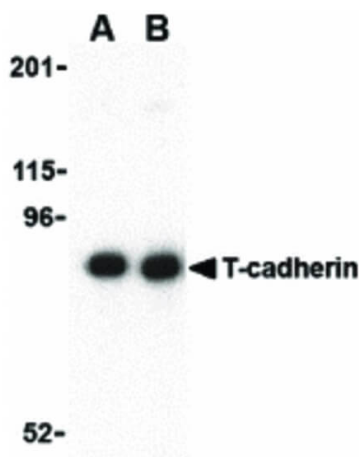
Immunofluorescence Microscopy

Immunofluorescence Microscopy of T-cadherin antibody.
Cell Type: 3T3 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: T-cadherin antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT.
Localization: T-cadherin is nuclear. Staining: T-cadherin as red fluorescent signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of T-cadherin antibody.
Cell Type: K562 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: T-cadherin antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT.
Localization: T-cadherin is nuclear. Staining: T-cadherin as red fluorescent signal.

**Western Blot**

Western Blot of T-cadherin in 3T3 lysate. Lane A: T-cadherin antibody at 0.5 $\mu\text{g/mL}$. Lane B: T-cadherin antibody at 1 $\mu\text{g/mL}$. Load: 35 μg per lane. Primary antibody: T-cadherin antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 29 kDa, 93 kDa for T-cadherin. Other band(s): T-cadherin splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.