

Anti-Mouse DELTA-1 (RABBIT) Antibody - 600-401-858

Code: 600-401-858

Size: 100 µg

Product Description: Anti-Mouse DELTA-1 (RABBIT) Antibody - 600-401-858

Concentration: 1.1mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	Dll1
Species Reactivity	mouse, rat, human, chicken
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	rabbit anti-Delta1 antibody, Delta-1, Delta 1, Delta-like protein 1 antibody, Drosophila Delta homolog 1, Delta-like protein 1, Dll1-soluble form, Dll1-EC, Dll1-derived cell-associated form, Dll1-TMIC, Dll1
Application Note	Anti-DELTA-1 Antibody has been tested for use in ELISA against the immunizing peptide and in IHC. It is expected that anti-Delta-1 antibody will be reactive in western blot assays. Reactivity in other immunoassays is unknown.
Background	Delta-like protein 1 is a protein that in humans is encoded by the DLL1 gene. The Notch signaling pathway has pleiotropic functions during mammalian embryogenesis. It is required for the patterning and differentiation of the presomitic and somitic paraxial mesoderm and of the neural tube. DLL1 is a human homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis, and has been shown to have a role in cell-to-cell communication. Anti-Delta-like protein 1 antibody would be suitable for researchers in Cell Biology and Signal Transduction.
Purity And Specificity	Anti-DELTA-1 Antibody was affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. The antibody detects DELTA-1 from mouse. Activity against Delta-1 from other species has not been determined but is expected based on sequence homology.
Assay Dilutions	User Optimized
ELISA	1:3,000 - 1:12,000
Western Blot	1:100 - 1:1,000
Immunohistochemistry	2µg/ml
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 155-173 of Mouse DELTA-1. DELTA-1 is a mouse homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis. It may play a role in cell-to-cell communication. Swiss Prot accession Q61483. Expected to cross-react with rat, human and chicken.
General Reference	Shimizu, K; Chiba S, Saito T, Kumano K, Takahashi T, Hirai H (July 2001). "Manic fringe and lunatic fringe modify different sites of the Notch2 extracellular region, resulting in different signaling modulation". J. Biol. Chem. (United States) 276 (28): 25753-8
Specific Reference	Meliou E, Kerezoudis N, Tosios K, Kiaris H. (2010) Notch 1 Receptor, Delta 1 Ligand and HES 1 Transcription Factor are Expressed in the Lining Epithelium of Periapical Cysts (Preliminary Study). Open Dent J. 2010 Jul 27;4:153-8. doi: 10.2174/1874210601004010153.
Related Products	

000-000-405	NOTCH 1 (intra) (Human specific) CONTROL PEPTIDE - 000-000-405
000-000-408	NOTCH 2 (Cleaved N terminal) (Human specific) CONTROL PEPTIDE - 000-000-408
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Related Links

NCBI - Q61483.1

<http://www.ncbi.nlm.nih.gov/protein/Q61483.1>

UniProtKB - Q61483

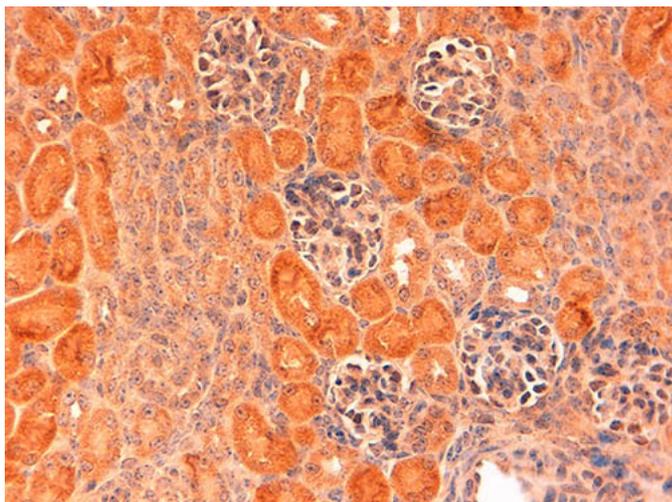
<http://www.uniprot.org/uniprot/Q61483>

GeneID - 13388

Images

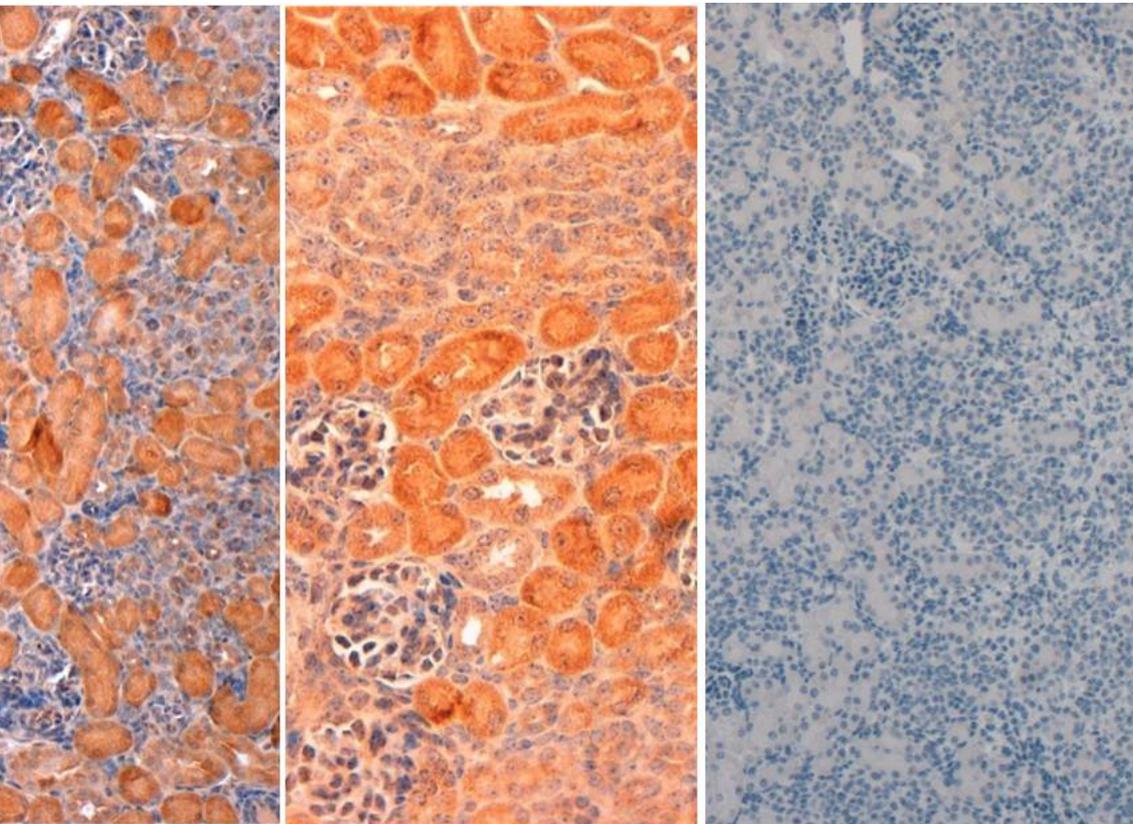
1

Immunohistochemistry of Rabbit Anti-Delta1 antibody. Tissue: Mouse embryonic kidney. Fixation: formalin fixed paraffin embedded 10% conc. Antigen retrieval: pH 9.5. Primary antibody: 2ug/ml for 1.5 hour @ room Temp. Secondary antibody: Peroxidase secondary reagent for 45 min at RT. Localization: as shown. Staining: 3,3'-diaminobenzidine tetrahydrochloride was used as the chromogen. Nuclei were counterstained purple with hematoxylin.



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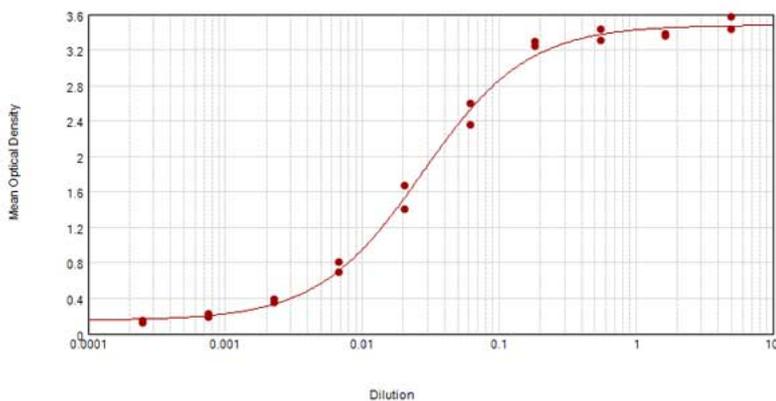
Immunohistochemistry of Rabbit anti-mouse DELTA1 Antibody in Mouse Embryonic Kidney Tissue: Mouse Embryonic Kidney. Fixation: FFPE buffered formalin 10% conc. Ag Retrieval: Heat, Citrate pH 6.2. Pressure Cooker (left, right), EDTA pH 9.5 Pressure Cooker (middle). Primary antibody: 2ug/ml 1.5 hour @ room temp. Secondary Ab: MACH 1 HRP POLYMER at 1:50 for 45° RT.



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ELISA results of purified Rabbit anti-Mouse DELTA-1 Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1 μg of conjugate. The starting dilution of antibody was 5 $\mu\text{g}/\text{ml}$ and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) (p/n 611-103-122) and TMB ELISA Peroxidase Substrate (p/n TMBE-1000).

Anti-Mouse DELTA-1-Specificity



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.