

Product Datasheet

DLL4 Antibody - BSA Free NB600-892

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NB600-892

DLL4 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>DLL4 affinity purified antibody is directed against human DLL4. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	54567
Gene Symbol	DLL4
Species	Human, Mouse, Rat
Reactivity Notes	<p>A BLAST analysis was used to suggest reactivity with this protein from human based on 100% homology for the immunogen sequence. However, cross reactivity is expected with mouse, rat and chimpanzee DLL4 based on a 91% homology to the core 12 amino acid sequence within the 14 amino acid immunogen sequence. Cross reactivity with DLL4 homologues from other sources has not been determined.</p> <p>Mouse reactivity reported in scientific literature (PMID: 27735989).</p> <p>Rat reactivity reported in scientific literature (PMID: 19828677).</p>
Immunogen	DLL4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of Human DLL4. (Uniprot: Q9NR61)
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2500, Flow Cytometry, ELISA 1:10000-1:50000, Immunohistochemistry 10 ug/ml-20 ug/ml, Immunocytochemistry/Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 10 ug/ml-20 ug/ml



Application Notes

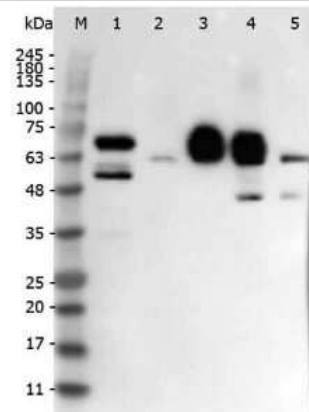
This product has been tested for use in ELISA, immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 74 kDa in size corresponding to DELTA-4 by western blotting in the appropriate cell lysate or extract. For best results use Goat Serum as blocking agent in western blotting.

Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 28352669).

Use in FLOW reported in scientific literature (PMID: 19915058).

Images

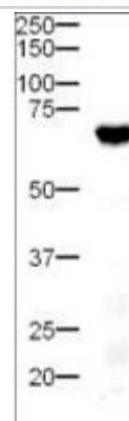
Western Blot: DLL4 Antibody [NB600-892] - Western Blot of DLL4 antibody. Lane 1: Mouse Pancreas Whole Cell Lysate. Lane 2: HUVEK Whole Cell Lysate. Lane 3: Human rDLL4. Lane 4: HEK293 Whole Cell Lysate + Human rDLL4. Lane 5: HEK293 Whole Cell Lysate. Load: 10 ug per lane for Whole Cell Lysates or 50 ng for recombinant protein. Primary antibody: DLL4 antibody at 1:1,000 overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting for 30 min at RT. Predicted/Observed size: 74 kDa, 74 kDa for DLL4. Other band(s): Not Identified.



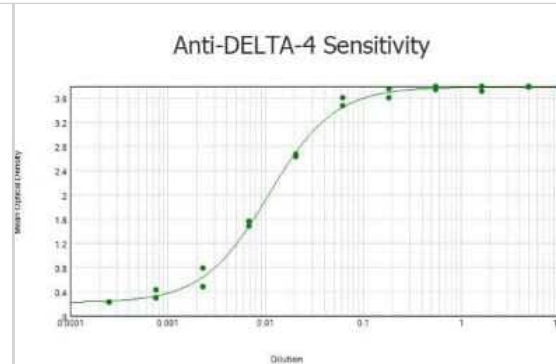
Immunohistochemistry: DLL4 Antibody [NB600-892] - Affinity Purified DLL4 antibody was used at 20 ug/ml to detect DLL4 in a variety of tissues including colon, liver, skeletal muscle, ovary, pancreas, prostate, testes, thymus, tonsil and uterus. In contrast to reported findings, no staining was observed in vascular tissue. This image shows DLL4 staining of human ovary. Tissue was formalin-fixed and paraffin embedded.



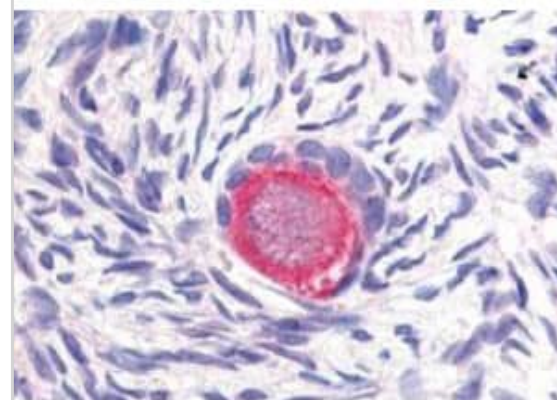
Western Blot: DLL4 Antibody [NB600-892] - Western Blot of DLL4 antibody. Lane 1: mouse pancreatic tissue. Load: 20 ug per lane. Primary antibody: DLL4 antibody at 1:500 for overnight at 4C. Secondary antibody: HRP-labeled Goat anti-Rabbit IgG secondary antibody at 1:5,000 for 1 hour at RT. A chemiluminescence system was used for signal detection using a 3 min exposure time. Block: 5% Goat Serum overnight at 4C. Predicted/Observed size: 74 kDa, 70 kDa for Delta 4. Other band(s): none.



ELISA: DLL4 Antibody [NB600-892] - ELISA results of purified DLL4 antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1ug of conjugate. The starting dilution of antibody was 5ug/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) and TMB ELISA Peroxidase Substrate.



Affinity Purified anti-Delta-4 antibody was used at 20 ug/ml to detect Delta-4 in a variety of tissues including colon, liver, skeletal muscle, ovary, pancreas, prostate, testes, thymus, tonsil and uterus. In contrast to reported findings, no staining was observed in vascular tissue. This image shows Delta-4 staining of human ovary. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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