

Product Datasheet

CDT2 Antibody NB100-40840

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-40840

CDT2 Antibody

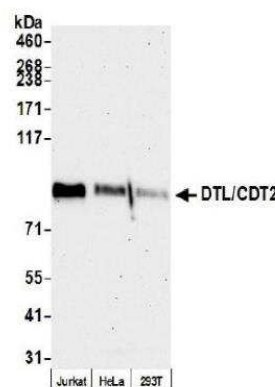
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

Product Description	
Description	Novus Biologicals Rabbit CDT2 Antibody (NB100-40840) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-CDT2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51514
Gene Symbol	DTL
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 680 and the C-terminus (residue 730) of human Denticleless Homolog (Chromatin Licensing and DNA Replicating Factor 2) using the numbering given in entry NP_057532.1 (GenelD 51514)

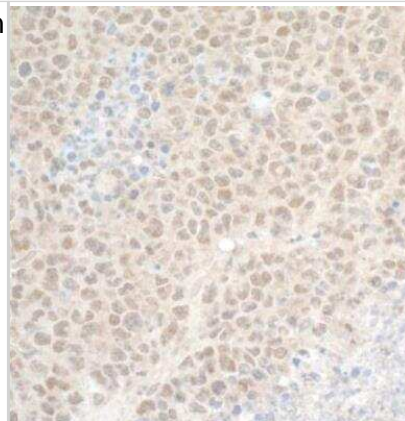
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:200 -1:1000, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:1000
Application Notes	Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections.

Images

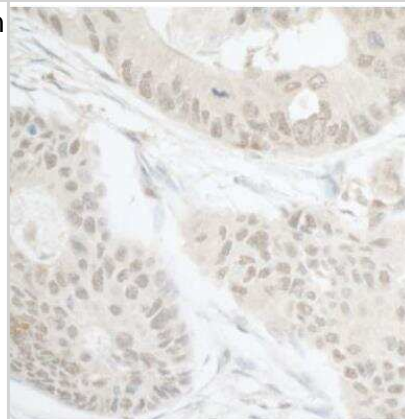
Western Blot: CDT2 Antibody [NB100-40840] - Whole cell lysate (15 ug) from Jurkat, HeLa, and HEK293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-DTL/CDT2 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



Immunohistochemistry-Paraffin: CDT2 Antibody [NB100-40840] - Section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti-DTL/CDT2 used at a dilution of 1:200 (1ug/ml). Detection: DAB



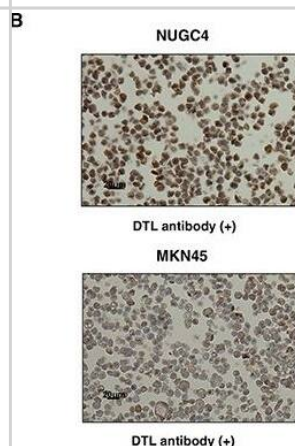
Immunohistochemistry-Paraffin: CDT2 Antibody [NB100-40840] - Section of human prostate carcinoma. Antibody: Affinity purified rabbit anti-DTL/CDT2 used at a dilution of 1:1000 (0.2 ug/ml). Detection: DAB



Immunoprecipitation: CDT2 Antibody [NB100-40840] - Detection of human DTL/CDT2 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-DTL/CDT2 antibody NB100-40840 (lot NB100-40840-3) used for IP at 6 ug per reaction. DTL/CDT2 was also immunoprecipitated by a previous lot of this antibody (lot NB100-40840-2). For blotting immunoprecipitated DTL/CDT2, NB100-40840 was used at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



Expression profiles of DTL in 7 GC cell linesA. Quantitative real-time RT-PCR and western blotting analysis were performed using a DTL-specific antibody to determine DTL mRNA (top) and protein (bottom) expression in the gastric cancer cell lines Kat0III, NUGC4, MKN7, HGC27, MKN28, MKN45, and MKN74. DTL overexpression was observed in the Kat0III, NUGC4, HGC27, and MKN28 cells (4/7 lines, 57%). B. A formalin-fixed gastric cancer NUGC4 cell line that overexpresses DTL, in which > 50% of cells stained positively, was used as a positive control; an MKN45 cell line with a low expression of DTL was included as a negative control. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/26472028>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Renna FJ, Enriquez Steinberg JH, Gonzalez CD et al. Ubiquitination Is a Novel Post-Translational Modification of VMP1 in Autophagy of Human Tumor Cells International Journal of Molecular Sciences 2023-08-19 [PMID: 37629161]

Renna F, Steinberg J, Manifava M et al. Ubiquitination is a novel post-translational modification of VMP1 in autophagy of human tumor cells bioRxiv 2023-02-14 (IF)

Hossain M, Bhalla K, Stillman B Multiple, short protein binding motifs in ORC1 and CDC6 control the initiation of DNA replication Molecular cell 2021-03-13 [PMID: 33761311]

Kobayashi H, Komatsu S, Ichikawa D et al. Overexpression of denticleless E3 ubiquitin protein ligase homolog (DTL) is related to poor outcome in gastric carcinoma. Oncotarget 2015-11-03 [PMID: 26472028] (WB)

Yamashita K, Ide M, Furukawa KT et al. Tumor suppressor protein Lgl mediates G1 cell cycle arrest at high cell density by forming an Lgl-VprBP-DDB1 complex. Mol. Biol. Cell. 2015-05-06 [PMID: 25947136] (IP, Human)

Rossi M, Duan S, Jeong YT et al. Regulation of the CRL4(Cdt2) Ubiquitin Ligase and Cell-Cycle Exit by the SCF (Fbxo11) Ubiquitin Ligase Mol Cell 2013-03-28 [PMID: 23478441] (WB, Human)

Jorgensen S, Eskildsen M, Fugger K et al. SET8 is degraded via PCNA-coupled CRL4(CDT2) ubiquitylation in S phase and after UV irradiation. J Cell Biol;192(1):43-54. 2011-01-10 [PMID: 21220508]





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Products Related to NB100-40840

NBL1-10031	CDT2 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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