

Product Datasheet

CNOT2 Antibody - BSA Free

NBP2-56034

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-56034

CNOT2 Antibody - BSA Free

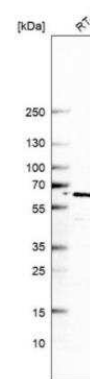
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	4848
Gene Symbol	CNOT2
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: DGSENVVTGLDLSDFPALADRNRRREGSGNPTPLINPLAGRAPYVGMVTKPANE QSQDFSIHNEDFPALPGSSYKDPT

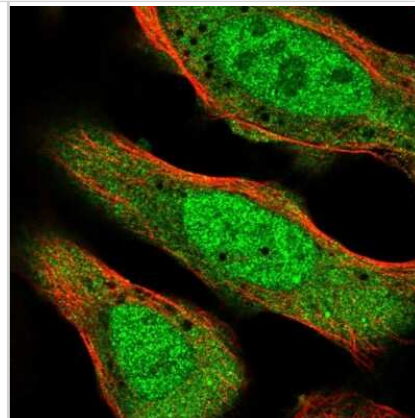
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation Reported in scientific literature (PMID:31873071), Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

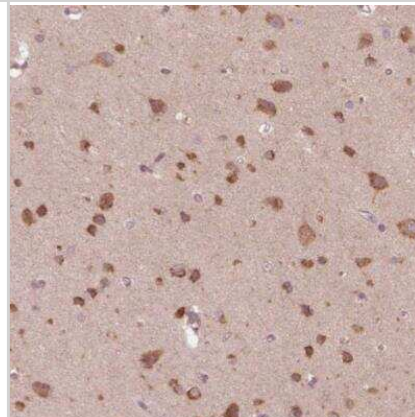
Western Blot: CNOT2 Antibody [NBP2-56034] - Analysis in human cell line RT-4.



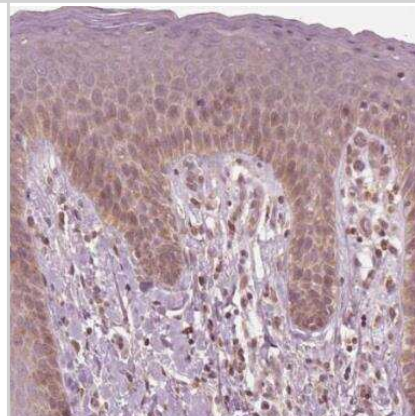
Immunocytochemistry/Immunofluorescence: CNOT2 Antibody [NBP2-56034] - Staining of human cell line U-2 OS shows localization to nucleoplasm & cytosol. Antibody staining is shown in green.



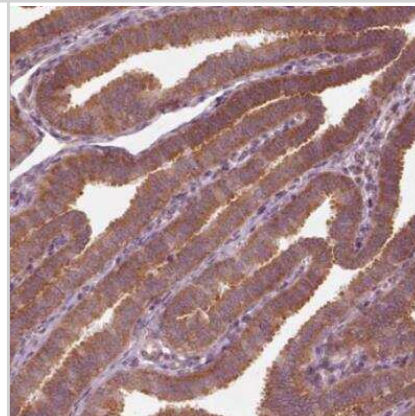
Immunohistochemistry-Paraffin: CNOT2 Antibody [NBP2-56034] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neurons.



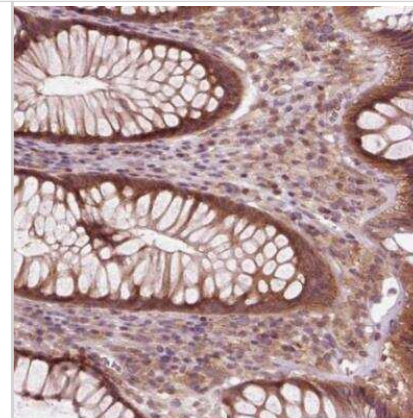
Immunohistochemistry-Paraffin: CNOT2 Antibody [NBP2-56034] - Staining of human skin shows moderate cytoplasmic positivity in squamous epithelial cells.



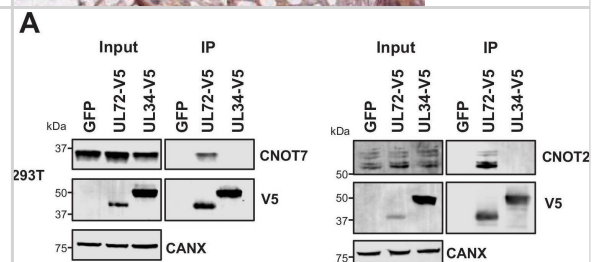
Immunohistochemistry-Paraffin: CNOT2 Antibody [NBP2-56034] - Staining of human fallopian tube shows strong cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: CNOT2 Antibody [NBP2-56034] - Staining of human rectum shows moderate cytoplasmic positivity in glandular cells.



Validation of interactome data by co-IP. (A) Co-IPs validating that UL72 interacts with CCR4-NOT Transcription Complex Subunits 7 and 2 (CNOT7 and CNOT2), conducted in HEK293T cells. For all experiments in this figure, left panels show an IB of 1–2% of input sample, and right panels shown an anti-V5 co-IP. Cells were transiently transfected with two plasmids, one expressing the C-terminally V5-tagged viral protein and the other expressing the C-terminally HA-tagged cellular prey. Bait proteins were detected with anti-V5, and prey with antibodies against CNOT7 or CNOT2 protein. Controls included GFP or the viral UL34 protein. CANX – calnexin loading control. This figure is representative of n = 1 experiment (CNOT2); n = 2 experiments (CNOT7). Expected sizes: CNOT7: 33 kDa; CNOT2: 52 kDa; CANX: 72 kDa; UL72: 44 kDa; UL34: 45 kDa. (B) Co-IPs validating that UL72 interacts with CNOT7 and CNOT2, conducted in HFFF-TERT cells overexpressing C-terminally V5-tagged UL72. Proteins were detected as described in (A). This figure is representative of n = 2 experiments (CNOT2); n = 1 experiment (CNOT7). Expected sizes: CNOT7: 33 kDa; CNOT2: 52 kDa; CANX: 72 kDa; UL72: 44 kDa; UL34: 45 kDa. (C) Co-IP validating the interaction between RL1 and CUL4A, conducted in HEK293T cells as described in (A), but with detection of CUL4A using anti-HA. This figure is representative of n = 4 experiments. Expected sizes: CUL4A: 77 kDa; RL1: 35 kDa; UL34: 45 kDa; CANX: 72 kDa. (D) HCMV UL71 interacted with multiple interferon-stimulated proteins, including TRIM22. (E) Co-IP validating the interaction between UL71 and TRIM22, conducted as described in (C). This figure is representative of n = 3 experiments. Expected sizes: TRIM22: 56 kDa; UL71: 40 kDa; UL34: 45 kDa; CANX: 72 kDa. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31873071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Burgess HM, Grande R, Riccio S et al. CCR4-NOT differentially controls host versus virus poly(a)-tail length and regulates HCMV infection EMBO reports 2023-10-17 [PMID: 37846490] (WB, Human)

Nobre LV, Nightingale K, Ravenhill BJ et al. Human cytomegalovirus interactome analysis identifies degradation hubs, domain associations and viral protein functions Elife 2019-12-24 [PMID: 31873071] (IP, Human)



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Products Related to NBP2-56034

NBP2-56034PEP	CNOT2 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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