Product Datasheet

TRAP1 Antibody
NBP2-20700

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 1

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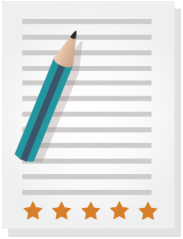
Updated 9/25/2025 v.20.1



NBP2-20700

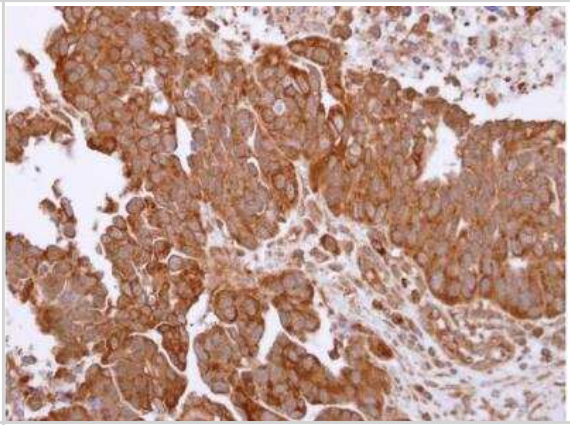
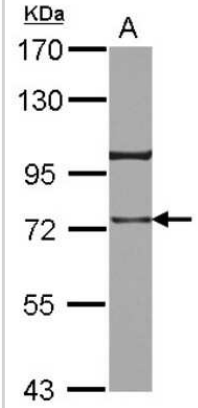
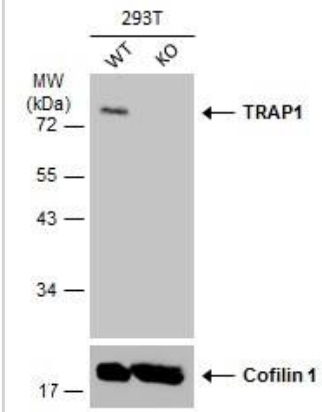
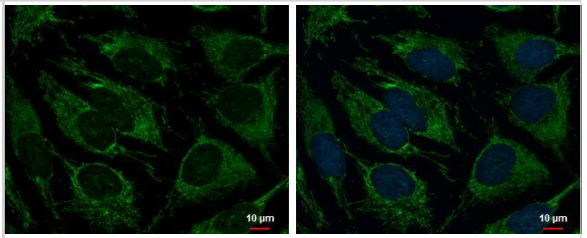
TRAP1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	80 kDa

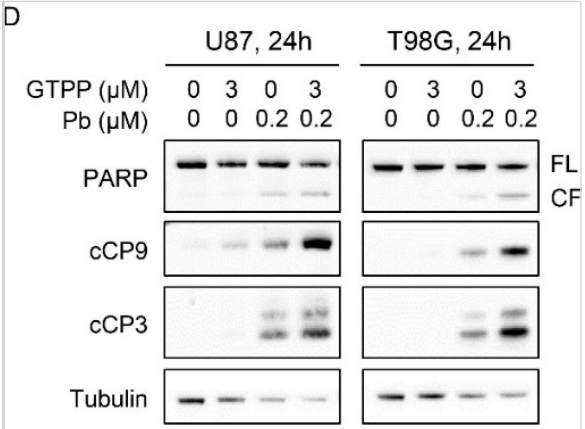
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit TRAP1 Antibody (NBP2-20700) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-TRAP1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10131
Gene Symbol	TRAP1
Species	Human
Reactivity Notes	Bovine (89%), Zebrafish (81%), Chicken (88%).
Immunogen	Recombinant protein encompassing a sequence within the N-terminus region of human TRAP1. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Knockout Validated, Knockdown Validated
Application Notes	Use in KD reported in scientific publication (PMID: 32664214).

Images

Immunohistochemistry-Paraffin: TRAP1 Antibody [NBP2-20700] - Ovarian carcinoma. TRAP1 antibody [N1N3] dilution: 1:250. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.	
Western Blot: TRAP1 Antibody [NBP2-20700] - Sample (30 ug of whole cell lysate) A: A431 7. 5% SDS PAGE gel, diluted at 1:3000.	
Wild-type (WT) and TRAP1 knockout (KO) 293T cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with TRAP1 antibody [N1N3] (NBP2-20700) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.	
TRAP1 antibody [N1N3] detects TRAP1 protein at mitochondria by immunofluorescent analysis. Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37oC for 30 min and permeabilized with 100% MeOH for 30 sec. Green: TRAP1 protein stained by TRAP1 antibody [N1N3] (NBP2-20700) diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 um.	

Combined inhibition of TRAP1 and HDACs enhanced activation of a cell death with apoptotic features, including cleavage of caspases. (A) U87 and LN229 cells were treated with the indicated concentration of gamitrinib, panobinostat or the combination of both for 48h. Thereafter, cells were labeled with annexin/propidium iodide (PI) dye and analyzed by multi-parametric flow cytometry. Shown are representative flow plots; (B,C) U87 and LN229 cells were treated with the indicated concentrations of gamitrinib, panobinostat/romidepsin or the combination of both for 48h. Thereafter, cells were labeled with propidium iodide (PI) dye and analyzed by flow cytometry. Shown are representative flow plots; (D) Standard western blots of cell lysates of U87 and T98G treated with gamitrinib, panobinostat or the combination of both for 24 h. Tubulin is used as a loading control. FL: full length, CF: cleaved fragment; (E) U87 and T98G cells were treated with the combination treatment of gamitrinib and panobinostat in the presence or absence of zVAD for 24h. Thereafter, cells were labeled with propidium iodide (PI) dye and analyzed by flow cytometry. Shown are representative flow plots; (F–H) U87 GBM cells were transfected with scrambled or TRAP1 specific siRNA and treated with panobinostat for 24h. Knockdown efficiency was confirmed by protein capillary electrophoresis. Vinculin serves as a loading control. Thereafter, cells were labeled with Annexin/PI dye and analyzed by multi-parametric flow cytometry (n = 3). Shown are means and SD. Statistical significance was determined by two-tailed Student's t-test. **** $p < 0.001$. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/32664214), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Nguyen TTT, Zhang Y, Shang E et al. Inhibition of HDAC1/2 Along with TRAP1 Causes Synthetic Lethality in Glioblastoma Model Systems Cells 2020-07-10 [PMID: 32664214] (WB, KD, Human)

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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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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