Product Datasheet

USP9x Antibody
NBP1-48321

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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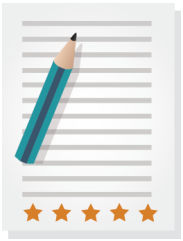
Updated 10/23/2024 v.20.1



NBP1-48321

USP9x Antibody

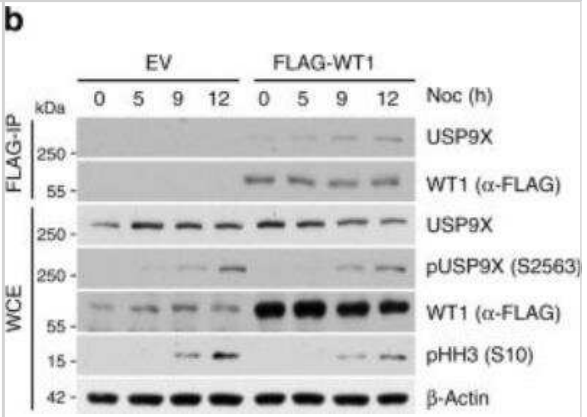
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 0.1% BSA, and 30% Glycerol
Target Molecular Weight	270 kDa

Product Description	
Host	Rabbit
Gene ID	8239
Gene Symbol	USP9X
Species	Human, Mouse
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: rat (95%) and zebrafish (80%).
Immunogen	Genomic peptide made to an internal region of the human USP9x protein (within residues 1150-1300). [Swiss-Prot Q93008]
Notes	Manufactured by Genomic Antibody Technology™. GAT FAQs

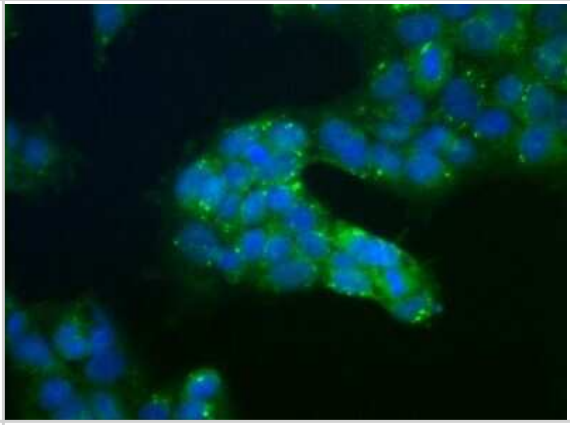
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:25-1:200, Immunohistochemistry-Paraffin 1:50
Application Notes	This USP9x antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry paraffin embedded sections and Western blot, where a band is seen ~270 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

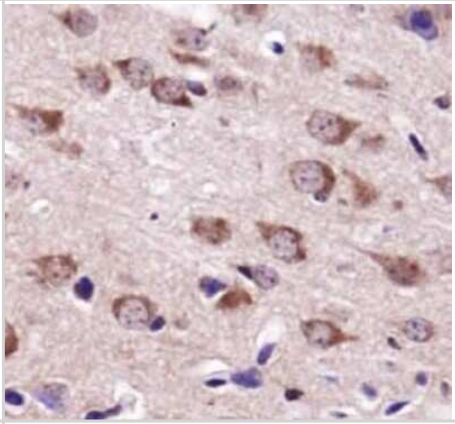
Western Blot: USP9x Antibody [NBP1-48321] - WT1 is a substrate of pUSP9X (serine 2563) in mitosis. Co-immunoprecipitation of FLAG-tagged WT1 with endogenous USP9X from HEK 293T cells (EV, expression vector). Cells were exposed to nocodazole, collected, lysed (WCE, whole cell extracts), and subjected to anti-FLAG immunoprecipitation before analysis by western blot. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-15059-5), licensed under a CC-BY license.



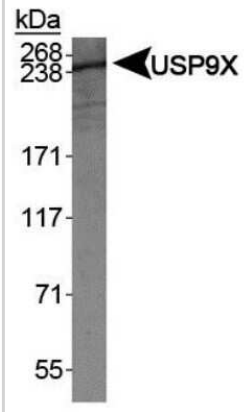
Immunocytochemistry/Immunofluorescence: USP9x Antibody [NBP1-48321] - Immunocytochemical analysis of USP9X in NTERA-2 cells



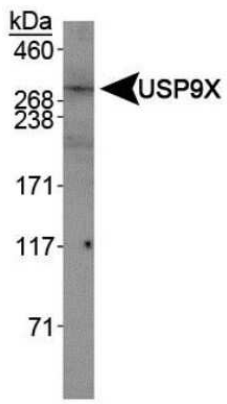
Immunohistochemistry: USP9x Antibody [NBP1-48321] - IHC staining of Usp9x in brain tissue.



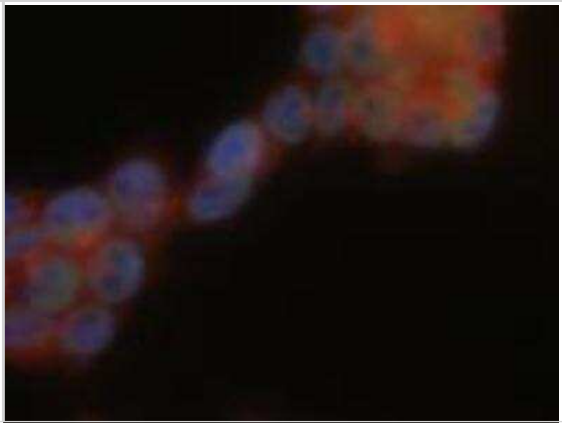
Western Blot: USP9x Antibody [NBP1-48321] - Analysis of USP9X in Caco-2 whole cell lysates.



Western Blot: USP9x Antibody [NBP1-48321] - Analysis of USP9X in NIH/3T3 whole cell lysate.



Immunocytochemistry/Immunofluorescence: USP9x Antibody [NBP1-48321] - ICC/IC analysis of USP9x in mouse ES cell line 129. Image courtesy of anonymous customer product review.



Publications

Asahina, M, Fujinawa, R Et al. Ngly1 -/- rats develop neurodegenerative phenotypes and pathological abnormalities in their peripheral and central nervous systems. Hum Mol Genet 2020-06-27 [PMID: 32259258] (WB, Mouse)

Bodiga Vl, Vemuri Pk, Nimmagadda G, Bodiga S Zinc-dependent changes in oxidative and endoplasmic reticulum stress during cardiomyocyte hypoxia/reoxygenation Biol. Chem. 2020-06-01 [PMID: 32549180] (WB)

Dietachmayr M, Rathakrishnan A, Karpiuk O et Al. Antagonistic activities of CDC14B and CDK1 on USP9X regulate WT1-dependent mitotic transcription and survival Nat Commun 2020-03-09 [PMID: 32152317] (WB, Human)

Perez-Mancera PA, Rust AG, van der Weyden L et al. The deubiquitinase USP9X suppresses pancreatic ductal adenocarcinoma. Nature 2012-04-01 [PMID: 22699621] (IF/IHC, Human)

Tian R, Cheng H-YM, Figeys D. Uncovering the proteome response of the master circadian clock to light using an AutoProteome system. Mol Cell Proteomics. 2011-08-22 [PMID: 21859948] (ICC/IF, Mouse)

Procedures

Western Blot protocol for USP9x Antibody (NBP1-48321)
USP9x Antibody:
Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations

and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Usp9x primary antibody (NBP1-48321) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided
it does not interfere with antibody-antigen binding.

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

Products Related to NBP1-48321

NB800-PC8	NIH 3T3 Whole Cell Lysate
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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