

Product Datasheet

PSMC1 Antibody - BSA Free

NBP1-80959

Unit Size: 0.1 ml

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

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NBP1-80959

PSMC1 Antibody - BSA Free

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	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
Target Molecular Weight	49 kDa

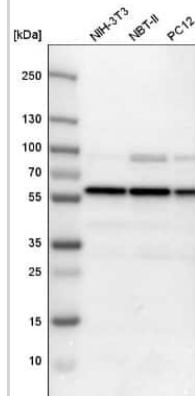
Product Description	
Description	Novus Biologicals Rabbit PSMC1 Antibody - BSA Free (NBP1-80959) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-PSMC1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5700
Gene Symbol	PSMC1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: YDSNSGGEREIQRTMLELLNQLDGFDSRQDVKVMATNRIETLDPALIRPGRIDR KIEFPLPDEKTKKRIFQIHTSRMTLADDVTLDDLIMAKDDLSGADIKAICTEAGLM ALRERRMKVTNEDFKKSKENVLYKKQEGTPE

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

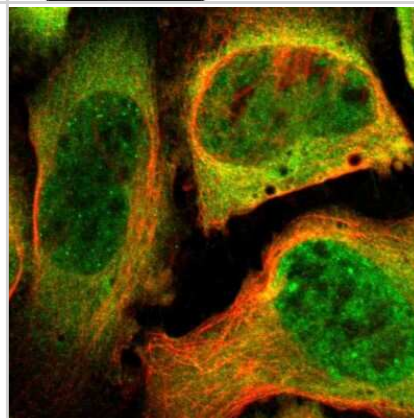


Images

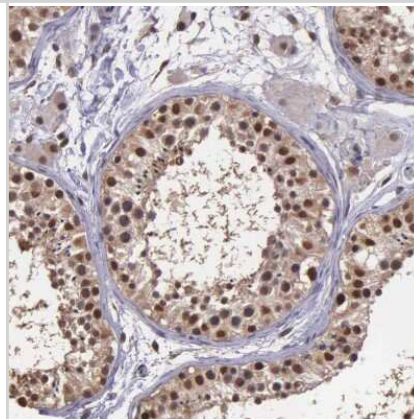
Western Blot: PSMC1 Antibody [NBP1-80959] - Western blot analysis in mouse cell line NIH-3T3, rat cell line NBT-II and rat cell line pC12.



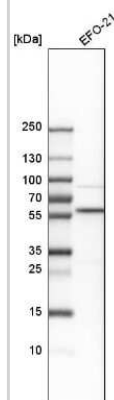
Immunocytochemistry/Immunofluorescence: PSMC1 Antibody [NBP1-80959] - Staining of human cell line U-2 OS shows localization to nucleoplasm & cytosol. Antibody staining is shown in green.



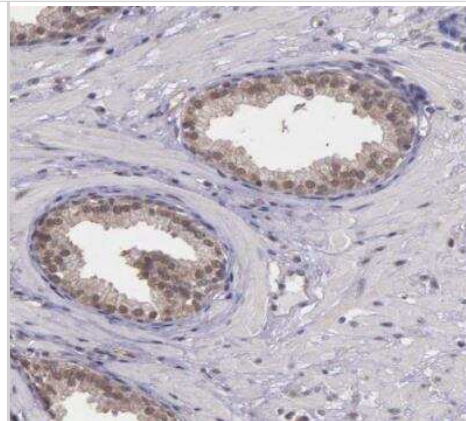
Immunohistochemistry-Paraffin: PSMC1 Antibody [NBP1-80959] - Staining of human testis shows strong nuclear positivity in cells in seminiferous ducts.



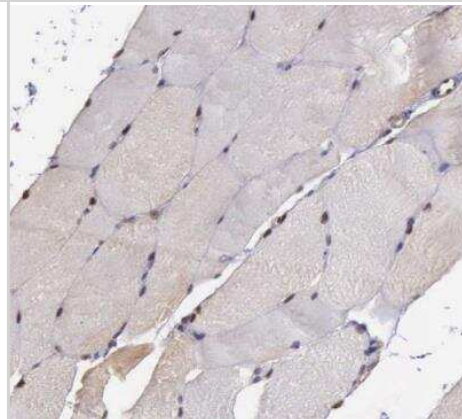
Western Blot: PSMC1 Antibody [NBP1-80959] - Analysis in human cell line EFO-21.



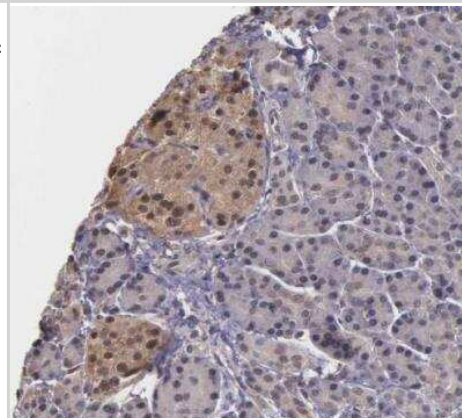
Immunohistochemistry-Paraffin: PSMC1 Antibody [NBP1-80959] - Staining of human prostate shows moderate nuclear positivity in glandular cells.



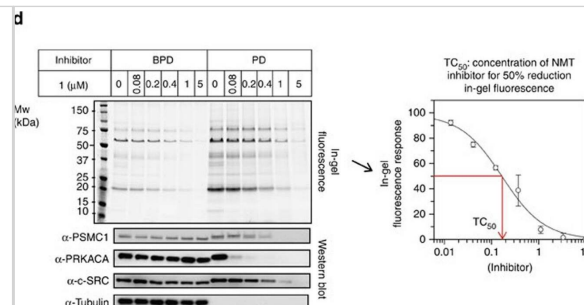
Immunohistochemistry-Paraffin: PSMC1 Antibody [NBP1-80959] - Staining of human skeletal muscle shows moderate nuclear positivity in myocytes.



Immunohistochemistry-Paraffin: PSMC1 Antibody [NBP1-80959] - Staining of human pancreas shows moderate nuclear positivity in islets of Langerhans.



Western Blot: PSMC1 Antibody [NBP1-80959] - Characterization of potent & selective NMT inhibitors. (a) Structure & dual NMT1/NMT2 inhibitory potency of compound 1. (b) Crystal structure of 1 (grey) bound to NMT1 in the presence of Myr-CoA showing key water molecules (red spheres) & polar interactions (dashed lines). Key residues (NMT1 numbering) are shown for NMT1 (blue, PDB 4C2Y) & NMT2 (pink, PDB 4C2X), & for NMT1 with 1 bound (green, PDB 4C2Z). Myr-CoA or the Myr-CoA analogue (NHM) is shown in black/grey. Image generated in PyMOL (0.99rc6, DeLano Scientific LLC, <http://pymol.sourceforge.net/>). (c) Viability (MTS assay) of HeLa cells exposed to compound 1 at concentrations & time points indicated; error bars, s.d. (n=6). (d) Compound 1 inhibits NMT activity dose-dependently in HeLa cells (BPD=before pull-down; PD=after pull-down on streptavidin-coated beads). In-gel fluorescence after YnMyr tagging was quantified (ImageJ) & the response (% relative intensity; error bars, s.d. (n=2)) plotted using GraFit 7.0 to determine TC₅₀ (see Fig. 2a for TC₅₀ determined for compound 1). Western blots against protein substrates of NMT show dose-dependent reduction in enrichment following inhibition (tubulin: non-substrate loading control). (e) Cells treated with azidohomoalanine (AHA), cycloheximide (CHX) or inhibitor 1 (or DMSO vehicle), were lysed & ligated (CuAAC) to an alkyne-TAMRA reagent⁶⁷. In-gel fluorescence demonstrates inhibition of protein synthesis by CHX, but not by 1. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25255805>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Thinon E, Serwa RA, Broncel M et al. Global profiling of co- and post-translationally N-myristoylated proteomes in human cells. *Nat Commun* 2014-09-26 [PMID: 25255805] (WB, Human)



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Products Related to NBP1-80959

NBP1-80959PEP	PSMC1 Recombinant Protein Antigen
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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