

Product Datasheet

NPLOC4 Antibody - BSA Free NBP1-82166

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-82166

Updated 3/4/2026 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-82166



NBP1-82166

NPLOC4 Antibody - BSA Free

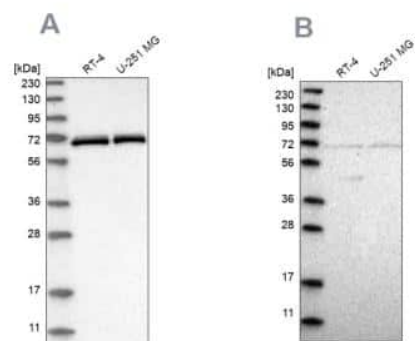
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	55666
Gene Symbol	NPLOC4
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VRDECLLPCKDAPELGYAKESSEQYVPDVFYKDVDKFGNEITQLARPLPVEYL IIDITTTFPKDPVYTFSSISQNPFPPIENRDVLGETQDFHSLATYLSQNTSSVFLDTIS DFHLLLFLVTNE

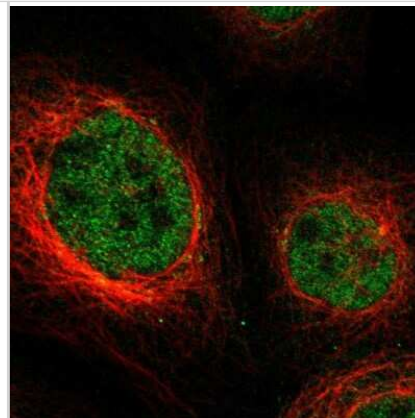
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

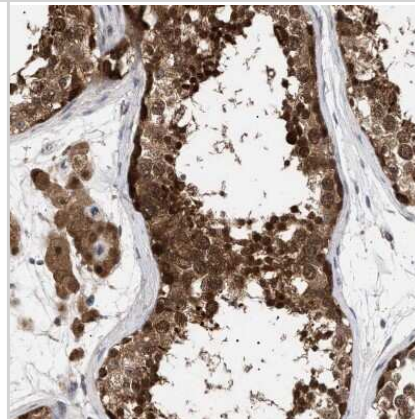
Western Blot: NPLOC4 Antibody [NBP1-82166] - Analysis using Anti-NPLOC4 antibody NBP1-82166 (A) shows similar pattern to independent antibody NBP1-82165 (B).



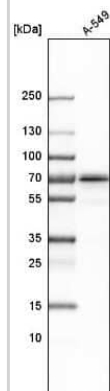
Immunocytochemistry/Immunofluorescence: NPLOC4 Antibody [NBP1-82166] - Staining of human cell line A-431 shows positivity in nuclei but not nucleoli. Antibody staining is shown in green.



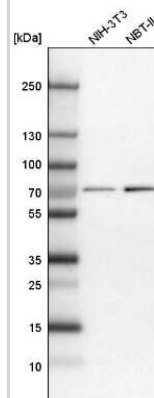
Immunohistochemistry-Paraffin: NPLOC4 Antibody [NBP1-82166] - Staining of human testis shows strong granular cytoplasmic positivity in cells in seminiferous ducts and Leydig cells.



Western Blot: NPLOC4 Antibody [NBP1-82166] - Analysis in human cell line A-549.



Western Blot: NPLOC4 Antibody [NBP1-82166] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.

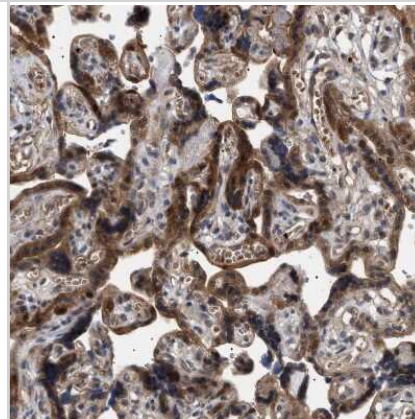


Western Blot: NPLOC4 Antibody [NBP1-82166] - Whole cell lysate of PC12 using antibody against nuclear protein NPLOC4. Samples were run as triplicates. Image from verified customer review.



70 KDa

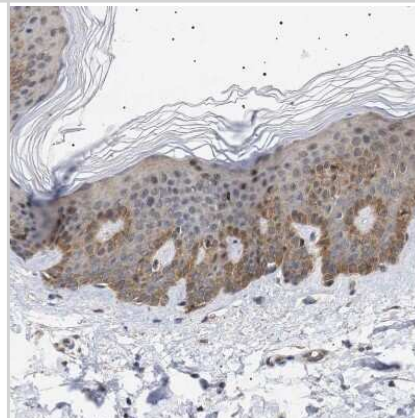
Immunohistochemistry-Paraffin: NPLOC4 Antibody [NBP1-82166] - Staining of human placenta shows moderate granular cytoplasmic positivity in trophoblastic cells.



Immunohistochemistry-Paraffin: NPLOC4 Antibody [NBP1-82166] - Staining of human skeletal muscle shows moderate to strong cytoplasmic positivity in myocytes.



Immunohistochemistry-Paraffin: NPLOC4 Antibody [NBP1-82166] - Staining of human skin shows weak to moderate cytoplasmic positivity in squamous epithelial cells.



Publications

Buchtova T, Skrott Z, Chroma K et al. Cannabidiol-induced activation of the metallothionein pathway impedes anticancer effects of disulfiram and its metabolite CuET *Molecular Oncology* 2022-04-01 [PMID: 34632694]

A Franz, P Valledor, P Ubieto-Cap, D Pilger, A Galarreta, V Lafarga, A Fernández-, G de la Vega, F den Brave, T Hoppe, O Fernandez-, E Lecona USP7 and VCPFAF1 define the SUMO/Ubiquitin landscape at the DNA replication fork *Cell Reports*, 2021-10-12;37(2):109819. 2021-10-12 [PMID: 34644576]

Kanellis DC, Zisi A, Skrott Z et al. Actionable cancer vulnerability due to translational arrest, p53 aggregation and ribosome biogenesis stress evoked by the disulfiram metabolite CuET *Cell death and differentiation* 2023-05-04 [PMID: 37142656] (ICC/IF, WB, Human)

Zhang H, Wang T, Liu H et al. Boost therapy of hepatocellular carcinoma by amplifying vicious cycle between mitochondrial oxidative stress and endoplasmic reticulum stress via biodegradable ultrasmall nanoparticles and old drug *Nano Today* 2022-10-01 (WB, ICC/IF, Human)

Details:

ICC/If Dilution: 1:200; WB Dilution: 1:1000

Chroma K, Skrott Z, Gursky J et al. A drug repurposing strategy for overcoming human multiple myeloma resistance to standard-of-care treatment *Cell death & disease* 2022-03-04 [PMID: 35246527] (WB, Human)

Serra R, Zhao T, Huq S Et al. Disulfiram and copper combination therapy targets NPL4, cancer stem cells and extends survival in a medulloblastoma model *PloS one* 2021-11-03 [PMID: 34731160] (ICC/IF, IHC-P, WB, Human)

Skrott Z, Mistrik M, Andersen KK et al. Alcohol-abuse drug disulfiram targets cancer via p97 segregase adaptor NPL4. *Nature* 2017-12-14 [PMID: 29211715] (WB, ICC/IF, Human)

Davis EJ, Lachaud C, Appleton P et al. DVC1 (C1orf124) recruits the p97 protein segregase to sites of DNA damage. *Nat Struct Mol Biol* 2012-11-01 [PMID: 23042607]





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 NBP1-82166

NBP1-82166PEP	NPLOC4 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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-82166

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

