

# Product Datasheet

## Niemann-Pick type C2 Antibody - BSA Free NBP1-84012

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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Updated 3/10/2025 v.20.1

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**NBP1-84012**

Niemann-Pick type C2 Antibody - BSA Free

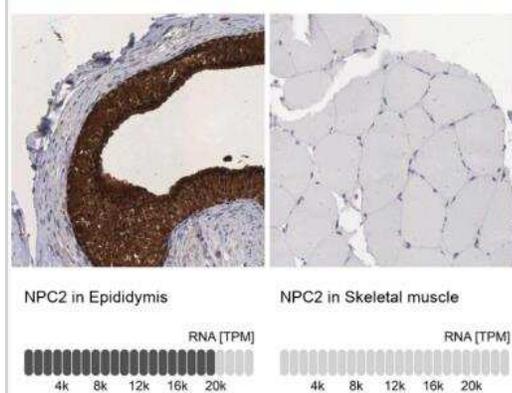
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	10577
Gene Symbol	NPC2
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVTFSTNIQSKSSKAV VHGILMGVPVPPPIPEPDGCKSGINCPIQKDKTYSYLNKLPVKSEYPSIKLVVEW QLQDDKNQSLFCWEIPVQIVSH

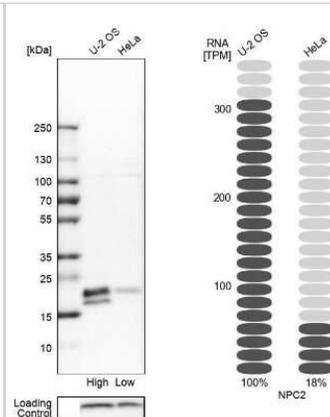
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:1000 - 1:2500, Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

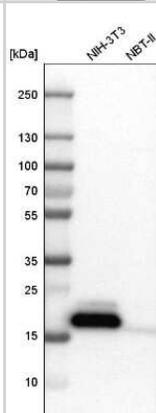
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Analysis in human epididymis and skeletal muscle tissues. Corresponding NPC2 RNA-seq data are presented for the same tissues.



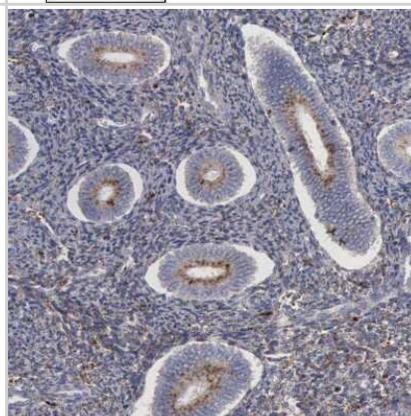
Western Blot: Niemann-Pick type C2 Antibody [NBP1-84012] - Analysis in human cell lines U2OS and HeLa using Anti-NPC2 antibody. Corresponding NPC2 RNA-seq data are presented for the same cell lines. Loading control: Anti-COX4I1.



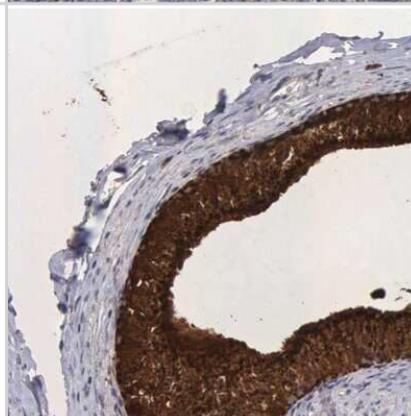
Western Blot: Niemann-Pick type C2 Antibody [NBP1-84012] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



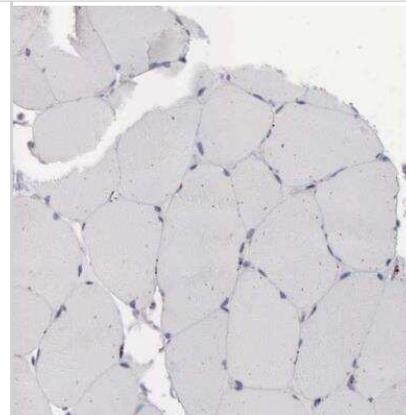
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human endometrium shows low expression as expected.



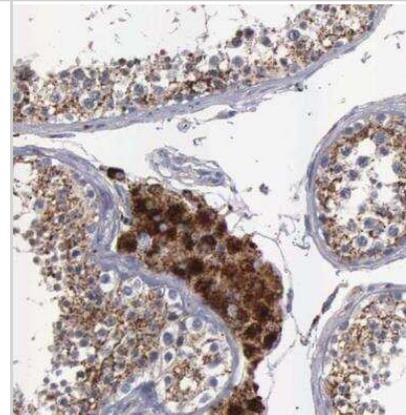
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human epididymis shows high expression.



Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human testis shows moderate to strong granular cytoplasmic positivity in Leydig cells and cells in seminiferous ducts.



## Publications

Kim TY, Jeon S, Jang Y et al. Platycodin D, a natural component of Platycodon grandiflorum, prevents both lysosome- and TMPRSS2-driven SARS-CoV-2 infection by hindering membrane fusion Experimental & molecular medicine 2021-05-25 [PMID: 34035463] (WB, Human)

Roszell BR, Tao JQ, Yu KJ et al. Pulmonary Abnormalities in Animal Models Due to Niemann-Pick Type C1 (NPC1) or C2 (NPC2) Disease. PLoS One 2013-01-01 [PMID: 23843985]

Taguchi A, Politi K, Pitteri SJ et al. Lung cancer signatures in plasma based on proteome profiling of mouse tumor models. Cancer Cell 2011-09-01 [PMID: 21907921]

Pernemalm M, De Petris L, Eriksson H et al. Use of narrow-range peptide IEF to improve detection of lung adenocarcinoma markers in plasma and pleural effusion. Proteomics 2009-07-01 [PMID: 19609957]



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### **Products Related to NBP1-84012**

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NBP1-84012PEP	Niemann-Pick type C2 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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### **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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