

# 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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**NBP1-84012**

Niemann-Pick type C2 Antibody - BSA Free

**Product Information**

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

**Product Description**

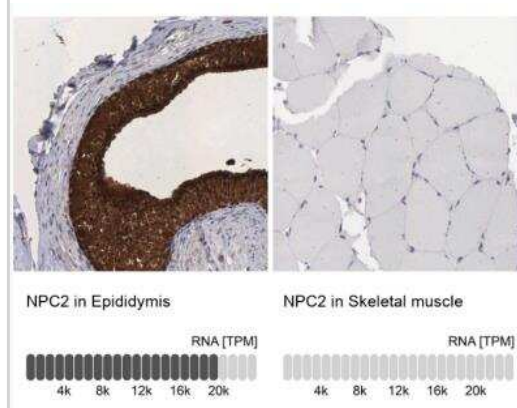
<b>Host</b>	Rabbit
<b>Gene ID</b>	10577
<b>Gene Symbol</b>	NPC2
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: PVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVTFTSNIQSKSSKAV VHGILMGVPVPFPIPEPDGCKSGINCPIQKDKTYSYLNKLPVKSEYPSIKLVVEW QLQDDKNQSLFCWEIPVQIVSH

**Product Application Details**

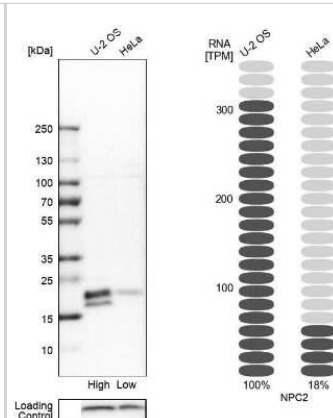
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:1000 - 1:2500, Immunohistochemistry-Paraffin 1:1000 - 1:2500
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

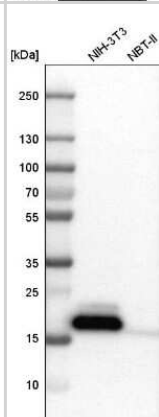
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Analysis in human epididymis and skeletal muscle tissues. Corresponding NPC2 RNA-seq data are presented for the same tissues.



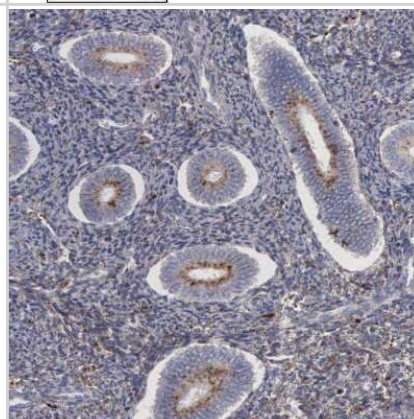
Western Blot: Niemann-Pick type C2 Antibody [NBP1-84012] - Analysis in human cell lines U2OS and HeLa using Anti-NPC2 antibody. Corresponding NPC2 RNA-seq data are presented for the same cell lines. Loading control: Anti-COX4I1.



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



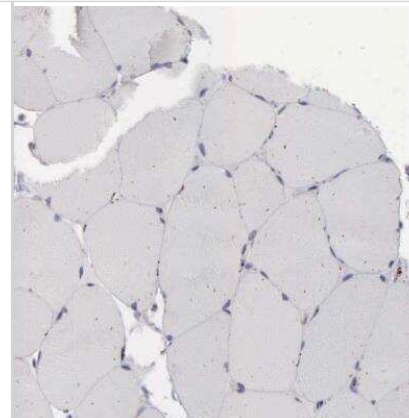
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human endometrium shows low expression as expected.



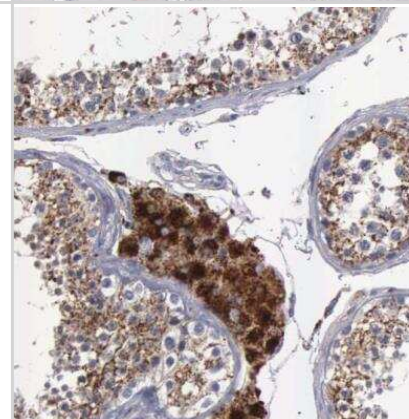
Immunohistochemistry-Paraffin: Niemann-Pick type C2 Antibody [NBP1-84012] - Staining of human epididymis shows high expression.



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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