

Product Datasheet

PEX5 Antibody - BSA Free NBP2-38443

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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NBP2-38443

PEX5 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

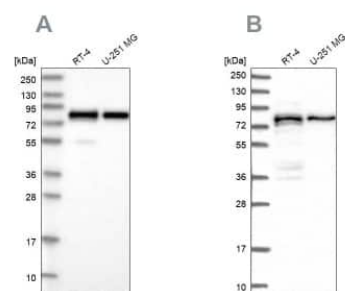
Product Description	
Description	Novus Biologicals Rabbit PEX5 Antibody - BSA Free (NBP2-38443) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-PEX5 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5830
Gene Symbol	PEX5
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID:31996685).
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: RAQAEQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEFERAKSAIESDVDFW DKLQAELEEMAKRDAEAHPWLSYDDLTSATYDKGYQFEEEN

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
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, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

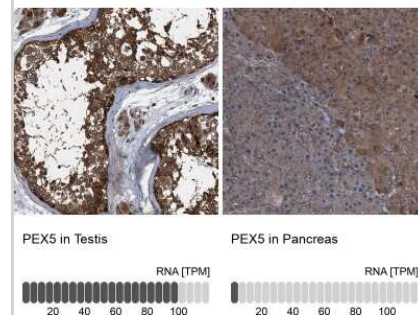


Images

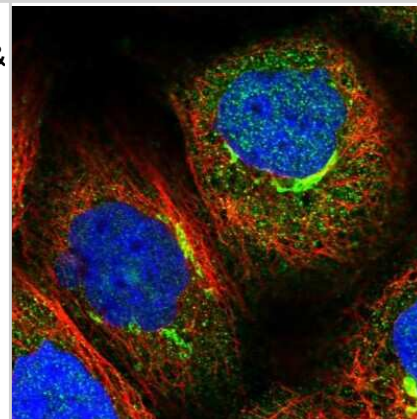
Western Blot: PEX5 Antibody [NBP2-38443] - Analysis using Anti-PEX5 antibody NBP2-38443 (A) shows similar pattern to independent antibody NBP1-87185 (B).



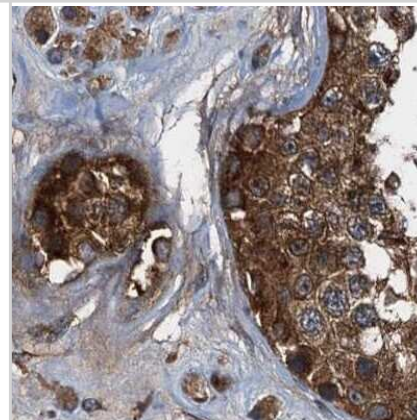
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining in human testis and pancreas tissues using anti-PEX5 antibody. Corresponding PEX5 RNA-seq data are presented for the same tissues.



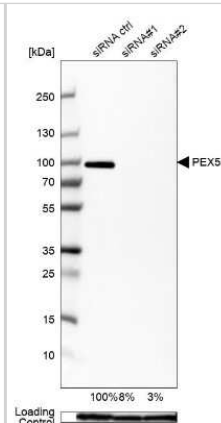
Immunocytochemistry/Immunofluorescence: PEX5 Antibody [NBP2-38443] - Staining of human cell line A-431 shows localization to cytosol & the Golgi apparatus. Antibody staining is shown in green.



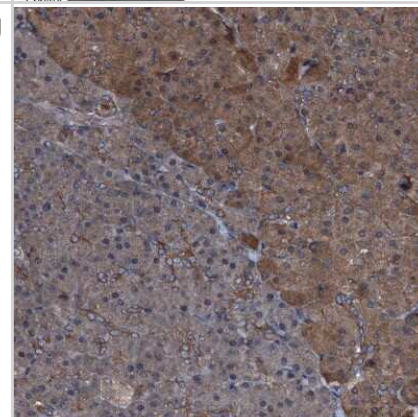
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human testis using Anti-PEX5 antibody NBP2-38443.



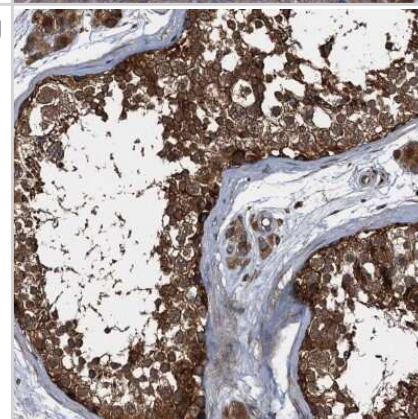
Western Blot: PEX5 Antibody [NBP2-38443] - Analysis in U2OS cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-PEX5 antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



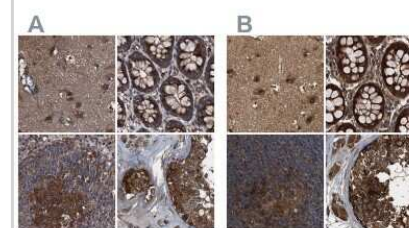
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human pancreas shows low expression as expected.



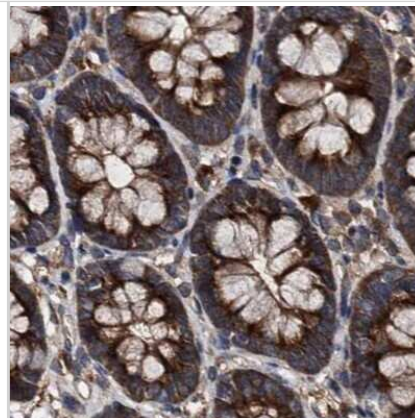
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human testis shows high expression.



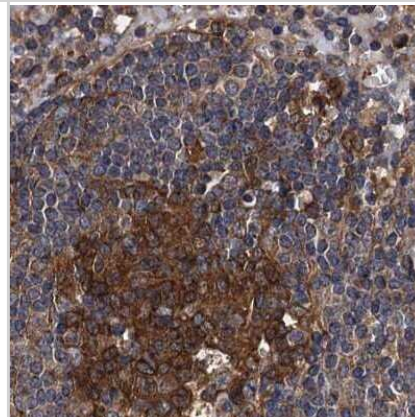
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human cerebral cortex, colon, lymph node and testis using Anti-PEX5 antibody NBP2-38443 (A) shows similar protein distribution across tissues to independent antibody NBP1-87185 (B).



Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human colon.



Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human lymph node.



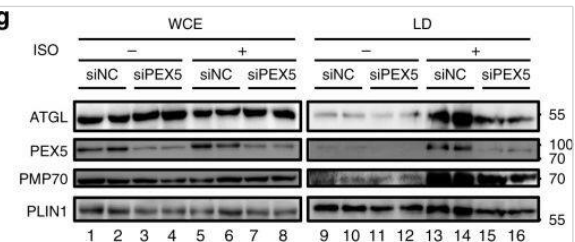
Immunohistochemistry-Paraffin: PEX5 Antibody [NBP2-38443] - Staining of human cerebral cortex.



Western Blot: PEX5 Antibody [NBP2-38443]: PEX5 Antibody [NBP2-38443] - PEX5 escorts ATGL to LD to mediate fasting-induced lipolysis. Western blot of whole cell extracts (WCE) or LD fractionation from adipocytes transfected with siNC or siPEX5. 30 ug of protein from WCE; 20 ug of protein from LD fraction. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-019-14176-0>), licensed under a CC-BY license.



Western Blot: PEX5 Antibody [NBP2-38443] - PEX5 escorts ATGL to LD to mediate fasting-induced lipolysis. **a** Relative glycerol release from adipocytes transfected with negative control (NC) or PEX5 siRNA (siPEX5) for 48 h. $n = 3$ for each group. **b** Relative glycerol release from adipocytes transfected with siNC or siPEX5 for 48 h together in the absence or presence of WY-14643 (10 μ M) treatment. $n = 3$ for each group. **c** Relative glycerol release from adipocytes transfected with siNC or siACOX1 for 48 h. $n = 3$ for each group. **d, e** Representative SIM images & quantification analysis of recruited ATGL to LDs in adipocytes immunostained with endogenous PLIN1 (red) & ATGL (green). Cells were transfected with siNC or siPEX5. $n = 10$ cells for siNC group; $n = 15$ cells treated with ISO; $n = 12$ cells for siPEX5 group; $n = 13$ cells for siPEX5 treated with ISO. Quantification of ATGL recruitment to LDs was measured using imageJ software. **f** Representative SIM z-section images (left) & fluorescence intensity profiles from the indicated line scans (right). Below 0.2 fluorescence intensity indicates background fluorescence signal. LD areas are highlighted in yellow. **g** Western blot of whole cell extracts (WCE) or LD fractionation from adipocytes transfected with siNC or siPEX5. 30 μ g of protein from WCE; 20 μ g of protein from LD fraction. **h** Quantification of ATGL in LDs normalized to PLIN1 from **g**. $n = 4$ independent experiments. CON control, ISO isoproterenol. Cells were treated with ISO (1 μ M) for 1 h. All scale bars, 10 μ m. Data represent the mean \pm SD; * $P < 0.05$, *** $P < 0.01$ in two-way ANOVA followed by Turkey's post-hoc test. n.s., not statistically significant. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31996685>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kong J, Ji Y, Jeon YG et al. Spatiotemporal contact between peroxisomes and lipid droplets regulates fasting-induced lipolysis via PEX5 Nat Commun 2020-01-29 [PMID: 31996685] (WB, Human, Mouse)



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NBP2-38443PEP	PEX5 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

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