

# Product Datasheet

## PAXX Antibody - BSA Free NBP1-94172

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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### Publications: 2

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Updated 12/2/2025 v.20.1

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**NBP1-94172**

PAXX 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>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

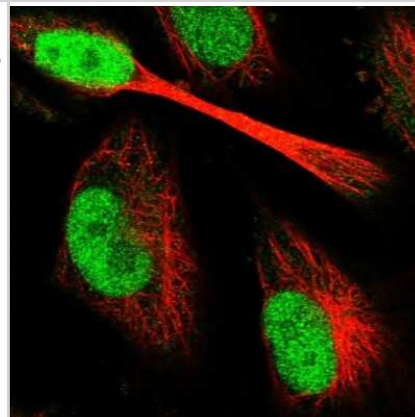
Product Description	
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Rabbit PAXX Antibody - BSA Free (NBP1-94172) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-PAXX Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	286257
<b>Gene Symbol</b>	PAXX
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Use in Mouse reported in scientific literature (PMID:29511619).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: LSKVPGPEAAPRLRALTLGLAKRVWSLERRLAAAEEETAVSPRKSPRPAGPQLF LPDPDPQRGGPGPGVRRRCPPGESLINPGFKSKKPAGGVDFDET

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000, Knockout Validated, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

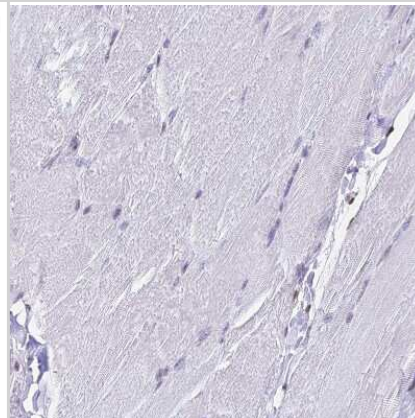


## Images

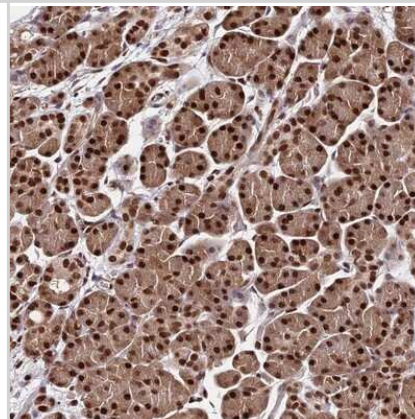
Immunocytochemistry/Immunofluorescence: PAXX Antibody [NBP1-94172] - Immunofluorescent staining of human cell line U-251 MG shows localization to nucleoplasm.



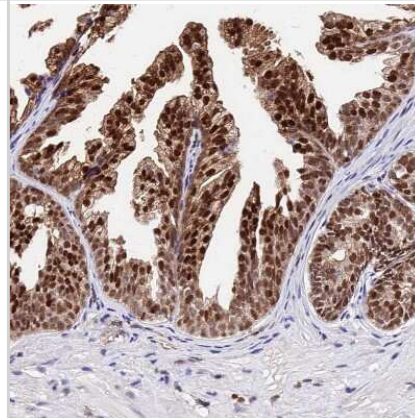
Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human pancreas shows strong nuclear positivity in exocrine glandular cells.



Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human prostate shows strong nuclear positivity in glandular cells.



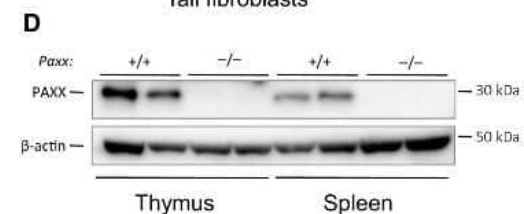
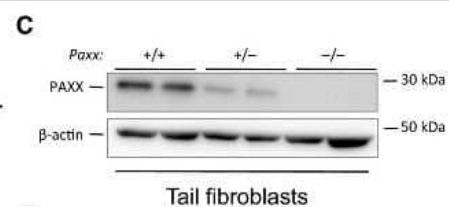
Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human stomach shows strong nuclear positivity in glandular cells.



Western Blot: PAXX Antibody [NBP1-94172] - Generation of *Paxx*<sup>-/-</sup> mice. Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in *Paxx*<sup>-/-</sup> tail fibroblasts, spleen, thymus, liver, and lungs when compared to *Paxx*<sup>+/+</sup> controls and reduction of PAXX protein in *Paxx*<sup>+/-</sup> cells.



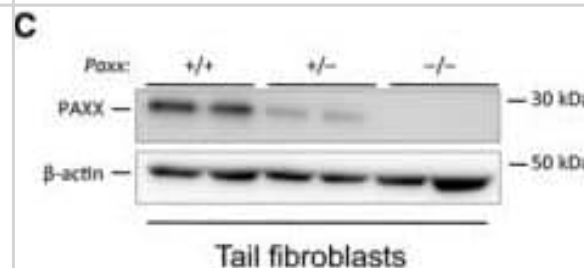
Western Blot: PAXX Antibody [NBP1-94172] - Generation of *Paxx*<sup>-/-</sup> mice. Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in *Paxx*<sup>-/-</sup> tail fibroblasts, spleen, thymus when compared to *Paxx*<sup>+/+</sup> controls and reduction of PAXX protein in *Paxx*<sup>+/-</sup> cells. Image collected and cropped by CiteAb from the following publication (<https://febs.onlinelibrary.wiley.com/doi/full/10.1002/2211-5463.12381>), licensed under a CC-BY license.



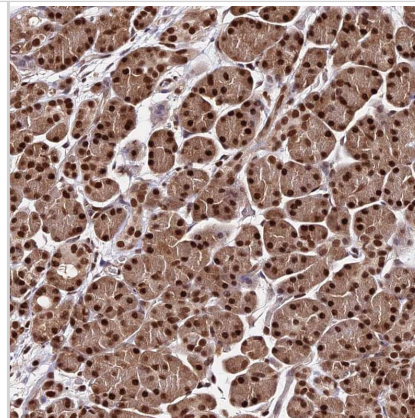
Western Blot: PAXX Antibody [NBP1-94172] - Generation of Paxx<sup>-/-</sup> mice. (A) Top. Schematic diagram of murine Paxx locus indicating the ATG & STOP sites, & the targeted loci in the promoter region for sgRNA#1 & in exon 2 for sgRNA#2. Bottom. Resulting Paxx<sup>-/-</sup> locus lacking part of the promoter region, transcription start site, & exon 1. (B) PCR-based genotyping strategy reveals the Paxx wt allele (965 bp) & Paxx null allele (270 bp). The following samples are presented, from left to right: two Paxx<sup>+/+</sup> & two Paxx<sup>-/-</sup>. (C,D) Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in Paxx<sup>-/-</sup> tail fibroblasts, spleen, thymus, liver, & lungs when compared to Paxx<sup>+/+</sup> controls & reduction of PAXX protein in Paxx<sup>+/-</sup> cells. (E) Western blot using Abcam anti-PAXX immunoglobulins showed no PAXX protein in Paxx<sup>-/-</sup> & reduction of PAXX protein in Paxx<sup>+/-</sup> livers compared to Paxx<sup>+/+</sup>. (F) Analyses of 184 pups born from Paxx<sup>+/-</sup> parents revealed expected genetic distribution of Paxx<sup>+/+</sup> (43), Paxx<sup>+/-</sup> (89), & Paxx<sup>-/-</sup> (52) mice, which is close to 1 : 2 : 1 distribution. (G) Body weight of 30-day-old Paxx<sup>+/+</sup> mice (n = 43) is not distinguishable from Paxx<sup>+/-</sup> (n = 60, P = 0.9559) & Paxx<sup>-/-</sup> mice (n = 99, P = 0.9629). Six Ku80<sup>-/-</sup> mice of the same age were significantly smaller than Paxx<sup>+/+</sup>, Paxx<sup>+/-</sup>, & Paxx<sup>-/-</sup> mice, P < 0.0001. (H) Example of 5-week-old mice, Paxx<sup>+/+</sup>, two Paxx<sup>+/-</sup>, & Paxx<sup>-/-</sup>, as indicated. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29511619>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



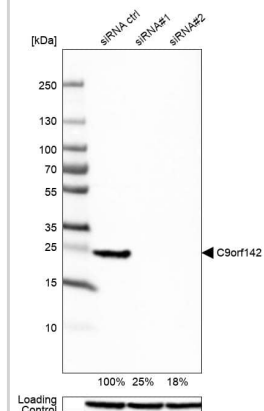
Western Blot: PAXX Antibody [NBP1-94172] - Generation of Paxx<sup>-/-</sup> mice. (A) Top. Schematic diagram of murine Paxx locus indicating the ATG & STOP sites, & the targeted loci in the promoter region for sgRNA#1 & in exon 2 for sgRNA#2. Bottom. Resulting Paxx<sup>-/-</sup> locus lacking part of the promoter region, transcription start site, & exon 1. (B) PCR-based genotyping strategy reveals the Paxx wt allele (965 bp) & Paxx null allele (270 bp). The following samples are presented, from left to right: two Paxx<sup>+/+</sup> & two Paxx<sup>-/-</sup>. (C,D) Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in Paxx<sup>-/-</sup> tail fibroblasts, spleen, thymus, liver, & lungs when compared to Paxx<sup>+/+</sup> controls & reduction of PAXX protein in Paxx<sup>+/-</sup> cells. (E) Western blot using Abcam anti-PAXX immunoglobulins showed no PAXX protein in Paxx<sup>-/-</sup> & reduction of PAXX protein in Paxx<sup>+/-</sup> livers compared to Paxx<sup>+/+</sup>. (F) Analyses of 184 pups born from Paxx<sup>+/-</sup> parents revealed expected genetic distribution of Paxx<sup>+/+</sup> (43), Paxx<sup>+/-</sup> (89), & Paxx<sup>-/-</sup> (52) mice, which is close to 1 : 2 : 1 distribution. (G) Body weight of 30-day-old Paxx<sup>+/+</sup> mice (n = 43) is not distinguishable from Paxx<sup>+/-</sup> (n = 60, P = 0.9559) & Paxx<sup>-/-</sup> mice (n = 99, P = 0.9629). Six Ku80<sup>-/-</sup> mice of the same age were significantly smaller than Paxx<sup>+/+</sup>, Paxx<sup>+/-</sup>, & Paxx<sup>-/-</sup> mice, P < 0.0001. (H) Example of 5-week-old mice, Paxx<sup>+/+</sup>, two Paxx<sup>+/-</sup>, & Paxx<sup>-/-</sup>, as indicated. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29511619>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Staining of human pancreas shows strong nuclear positivity in exocrine glandular cells.



Analysis in HEK293 cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



## Publications

Gago-Fuentes R, Xing M, Saeterstad S et al. Normal development of mice lacking PAXX, the paralogue of XRCC4 and XLF FEBS Open Bio 2018-02-04 [PMID: 29511619] (WB, Mouse)

Xing M, Oksenyich V Genetic interaction between DNA repair factors PAXX, XLF, XRCC4 and DNA-PKcs in human cells FEBS Open Bio 2019-05-29 [PMID: 31141305] (WB, Human)



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### **Products Related to NBP1-94172**

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NBP1-94172PEP	PAXX 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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### **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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