

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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NBP1-94172

PAXX 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

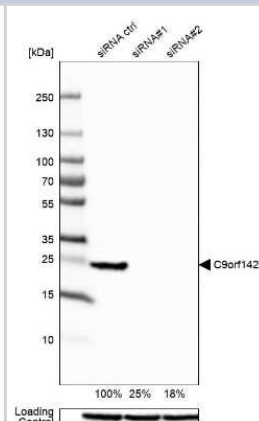
Host	Rabbit
Gene ID	286257
Gene Symbol	PAXX
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:29511619).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LSKVPGPEAAPRLRALTLGLAKRVWSLERRLAAAEETAVSPRKSPRPAGPQLF LPDPDPQRGGPGPGVRRRCPPGESLINPGFKSKKPAGGVDFDET

Product Application Details

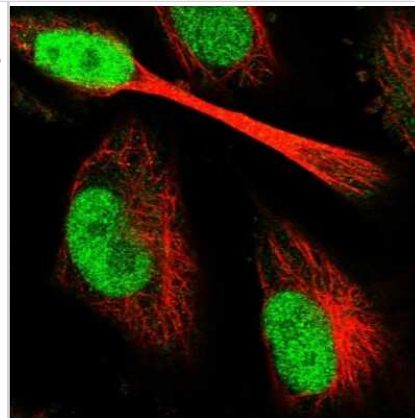
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml,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

Images

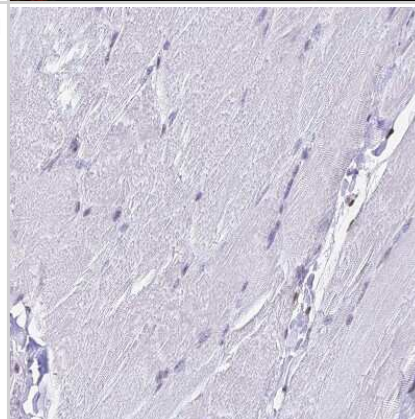
Western Blot: PAXX Antibody [NBP1-94172] - Analysis in HEK293 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using anti-C9orf142 antibody. Remaining relative intensity is presented. Loading control: anti-GAPDH.



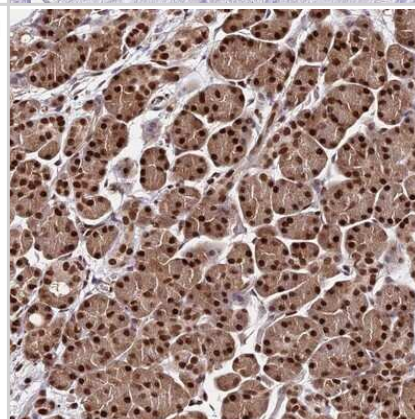
Immunocytochemistry/Immunofluorescence: PAXX Antibody [NBP1-94172] - Immunofluorescent staining of human cell line U-251 MG shows localization to nucleoplasm.



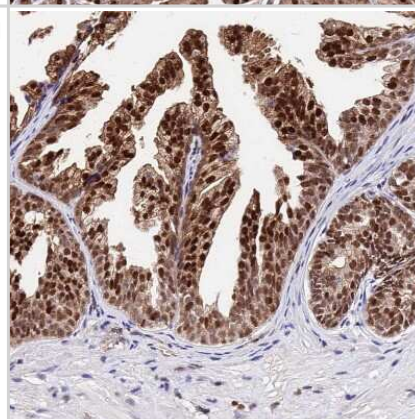
Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



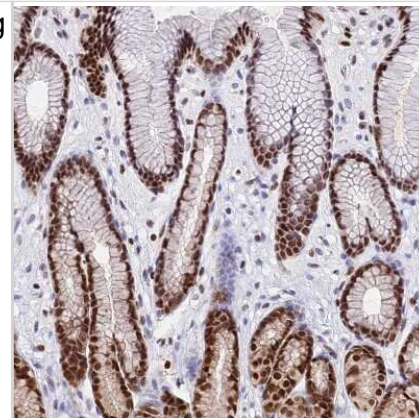
Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human pancreas shows strong nuclear positivity in exocrine glandular cells.



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



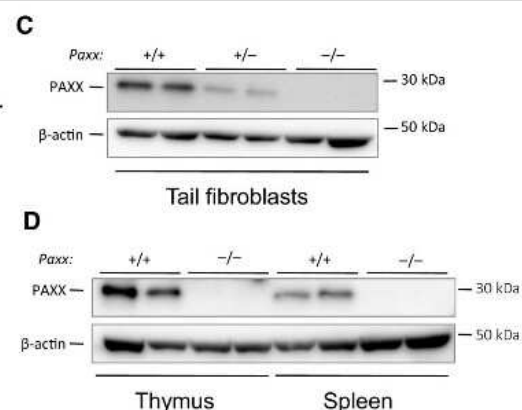
Immunohistochemistry-Paraffin: PAXX Antibody [NBP1-94172] - Staining of human stomach shows strong nuclear positivity in glandular cells.



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



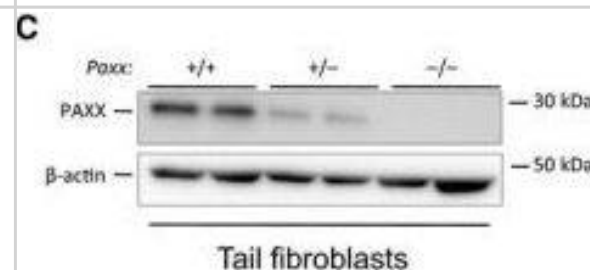
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Western Blot: PAXX Antibody [NBP1-94172] - Generation of Paxx^{-/-} mice. (A) Top. Schematic diagram of murine Paxx locus indicating the ATG & STOP sites, & the targeted loci in the promoter region for sgRNA#1 & in exon 2 for sgRNA#2. Bottom. Resulting Paxx^{-/-} 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^{+/+} & two Paxx^{-/-}. (C,D) Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in Paxx^{-/-} tail fibroblasts, spleen, thymus, liver, & lungs when compared to Paxx^{+/+} controls & reduction of PAXX protein in Paxx^{+/-} cells. (E) Western blot using Abcam anti-PAXX immunoglobulins showed no PAXX protein in Paxx^{-/-} & reduction of PAXX protein in Paxx^{+/-} livers compared to Paxx^{+/+}. (F) Analyses of 184 pups born from Paxx^{+/-} parents revealed expected genetic distribution of Paxx^{+/+} (43), Paxx^{+/-} (89), & Paxx^{-/-} (52) mice, which is close to 1 : 2 : 1 distribution. (G) Body weight of 30-day-old Paxx^{+/+} mice (n = 43) is not distinguishable from Paxx^{+/-} (n = 60, P = 0.9559) & Paxx^{-/-} mice (n = 99, P = 0.9629). Six Ku80^{-/-} mice of the same age were significantly smaller than Paxx^{+/+}, Paxx^{+/-}, & Paxx^{-/-} mice, P < 0.0001. (H) Example of 5-week-old mice, Paxx^{+/+}, two Paxx^{+/-}, & Paxx^{-/-}, 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^{-/-} 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^{-/-} 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^{+/+} & two Paxx^{-/-}. (C,D) Western blot analyses using Novus anti-PAXX immunoglobulins revealed the lack of PAXX protein in Paxx^{-/-} tail fibroblasts, spleen, thymus, liver, & lungs when compared to Paxx^{+/+} controls & reduction of PAXX protein in Paxx^{+/-} cells. (E) Western blot using Abcam anti-PAXX immunoglobulins showed no PAXX protein in Paxx^{-/-} & reduction of PAXX protein in Paxx^{+/-} livers compared to Paxx^{+/+}. (F) Analyses of 184 pups born from Paxx^{+/-} parents revealed expected genetic distribution of Paxx^{+/+} (43), Paxx^{+/-} (89), & Paxx^{-/-} (52) mice, which is close to 1 : 2 : 1 distribution. (G) Body weight of 30-day-old Paxx^{+/+} mice (n = 43) is not distinguishable from Paxx^{+/-} (n = 60, P = 0.9559) & Paxx^{-/-} mice (n = 99, P = 0.9629). Six Ku80^{-/-} mice of the same age were significantly smaller than Paxx^{+/+}, Paxx^{+/-}, & Paxx^{-/-} mice, P < 0.0001. (H) Example of 5-week-old mice, Paxx^{+/+}, two Paxx^{+/-}, & Paxx^{-/-}, 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.



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, Oksenysh 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

NBP1-94172PEP	PAXX 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.

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