abcam

Product datasheet

Anti-XPNPEP3 antibody ab192826

3 Images

Overview

Product name	Anti-XPNPEP3 antibody
Description	Rabbit polyclonal to XPNPEP3
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rat, Cow
Immunogen	Recombinant fragment within Human XPNPEP3 aa 12-507. The exact sequence is proprietary. NP_071381.1 Database link: Q9NQH7
Positive control	Human kidney tissue; A549 cells; A431 whole cell lysate.
General notes	Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee. In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for. We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee. Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 89% Tris glycine
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab192826** in the following tested applications.

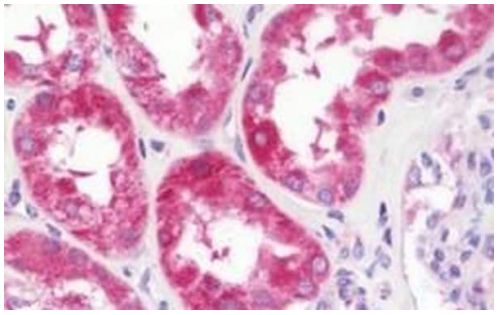
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 7.5 µg/ml.
ICC/IF		1/100 - 1/1000.
WB		1/500 - 1/3000. Predicted molecular weight: 57 kDa.

Target

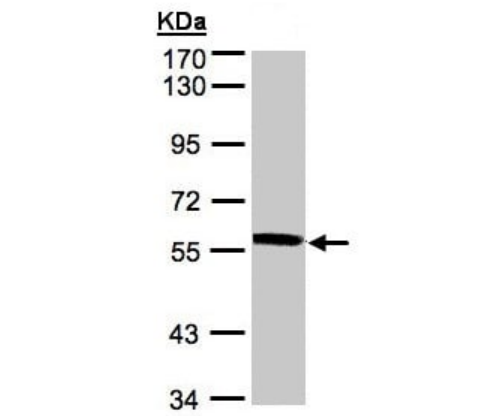
Tissue specificity	Isoform 1 and isoform 2 are widely expressed, with isoform 1 being more abundant.
Involvement in disease	Defects in XPNPEP3 are the cause of nephronophthisis-like nephropathy type 1 (NPHPL1) [MIM:613159]. A disorder with features of nephronophthisis, a cystic kidney disease leading to end-stage renal failure. Nephronophthisis is histologically characterized by modifications of the tubules with thickening of the basement membrane, interstitial fibrosis and, in the advanced stages, medullary cysts. Typical clinical manifestation are chronic renal failure, anemia, polyuria, polydipsia, isosthenuria, and growth retardation. Associations with extrarenal symptoms are frequent. In NPHPL1 patients, extrarenal symptoms include hypertension, essential tremor, sensorineural hearing loss and gout. Severely affected individuals can manifest a mitochondrial disorder with isolated complex I deficiency activity in muscle, seizures, mental retardation and hypertrophic dilated cardiomyopathy.
Sequence similarities	Belongs to the peptidase M24B family.
Cellular localization	Mitochondrion.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XPNPEP3 antibody (ab192826)

Immunohistochemical analysis of formalin fixed, paraffin embedded Human kidney tissue labeling XPNPEP3 with ab192826 at 7.5 µg/ml.

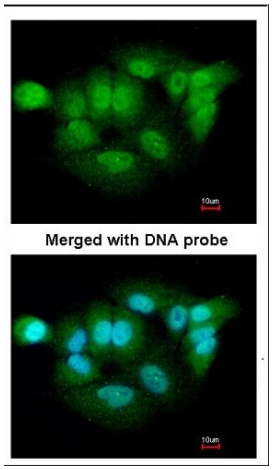


Western blot - Anti-XPNPEP3 antibody (ab192826)

Anti-XPNPEP3 antibody (ab192826) at 1/500 dilution + A431 whole cell lysate at 30 µg

Predicted band size: 57 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-XPNPEP3 antibody (ab192826)

ab192896 (1:200 dilution) staining XPNPEP3 in paraformaldehyde-fixed A549 by ICC/IF (Immunocytochemistry/Immunofluorescence).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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