




Product datasheet

Anti-PNKD antibody ab140115

[2 Images](#)

Overview

Product name	Anti-PNKD antibody
Description	Rabbit polyclonal to PNKD
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment corresponding to Human PNKD aa 164-342. Sequence: TLVAILCTHKHWDHSGGNRDLRRHRDCRVYGSPQDGIPY LTHPLCHQDV VSVGRLQIRALATPGHTQGHLVYLLDGEPYKGPSCLFSGD LLFLSGCGRT FEGNAETMLSSLDTVLGLGDDTLLWPGHEYAEENLGFAG VVEPENLARER KMQWVQRQLERKGTCPSTLGEERSYNPF  Run BLAST with  Run BLAST with
Positive control	Human uterine cancer tissue and Human fetal liver lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Lyophilized:Reconstitute in 200 µl sterile H2O
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 98% PBS, 1% BSA

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

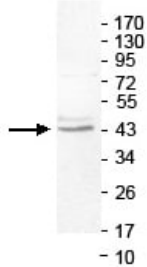
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab140115 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 43 kDa.
IHC-P		1/100 - 1/500.

Target

Function	Probable hydrolase that plays an aggravative role in the development of cardiac hypertrophy via activation of the NF-kappa-B signaling pathway.
Tissue specificity	Isoform 1 is only expressed in the brain. Isoform 2 is ubiquitously detected with highest expression in skeletal muscle and detected in myocardial myofibrils. Variant Val-7 and Val-9 are detected in the brain only.
Involvement in disease	Defects in PNKD are the cause of dystonia type 8 (DYT8) [MIM:118800]. DYT8 is a paroxysmal non-kinesigenic dystonia/dyskinesia. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. DYT8 is characterized by attacks of involuntary movements brought on by stress, alcohol, fatigue or caffeine. The attacks generally last between a few seconds and four hours or longer. The attacks may begin in one limb and spread throughout the body, including the face.
Sequence similarities	Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family.
Post-translational modifications	Isoform 2 is phosphorylated at Ser-121 upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm. Nucleus; Mitochondrion and Membrane.

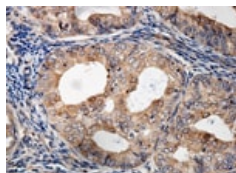
Images



Western blot - Anti-PNKD antibody (ab140115)

Anti-PNKD antibody (ab140115) at 1/500 dilution + Human fetal liver lysate

Predicted band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PNKD antibody (ab140115)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human uterine cancer tissue labelling PNKD with ab140115 at 1/100.

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

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