

Product datasheet

Anti-PNK/PNKP antibody [EPR11935] - C-terminal ab181107

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [2 References](#) [6 Images](#)

Overview

Product name	Anti-PNK/PNKP antibody [EPR11935] - C-terminal
Description	Rabbit monoclonal [EPR11935] to PNK/PNKP - C-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, PC-3, Jurkat and Human testis lysate. Human breast and pancreas tissue. HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR11935
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181107 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		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 57 kDa).
IP	★★★★★ (1)	1/20.

Target

Function Catalyzes the phosphorylation of DNA at 5'-hydroxyl termini and can dephosphorylate its 3'-phosphate termini. Plays an important function in DNA repair following ionizing radiation or oxidative damage.

Tissue specificity Expressed in many tissues with highest expression in spleen and testis, and lowest expression in small intestine (PubMed:10446192). Expressed in higher amount in pancreas, heart and kidney and at lower levels in brain, lung and liver (PubMed:10446193).

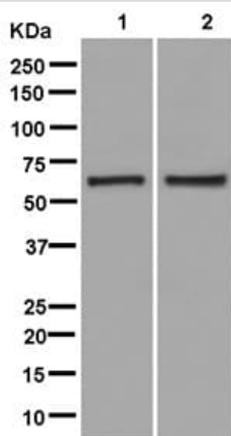
Involvement in disease Defects in PNKP are the cause of microcephaly seizures and development delay (MCSZ) [MIM:613402]. It is characterized by microcephaly, infantile-onset seizures, severe intellectual disability and delayed motor milestones with absent speech or only achieving a few words. Most patients also have behavioral problems with hyperactivity. Microcephaly is progressive and without neuronal migration or structural abnormalities, consistent with primary microcephaly.

Sequence similarities In the N-terminal section; belongs to the DNA 3' phosphatase family.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Nucleus.

Images



Western blot - Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107)

All lanes : Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107) at 1/2000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : Human testis tissue lysate

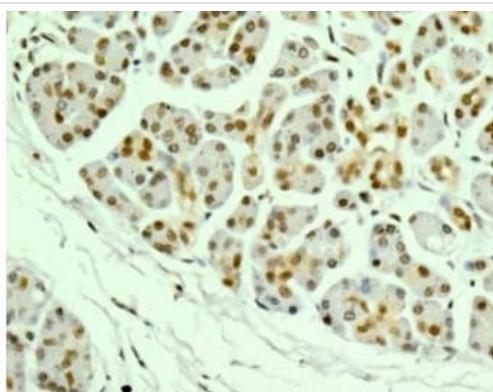
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 57 kDa

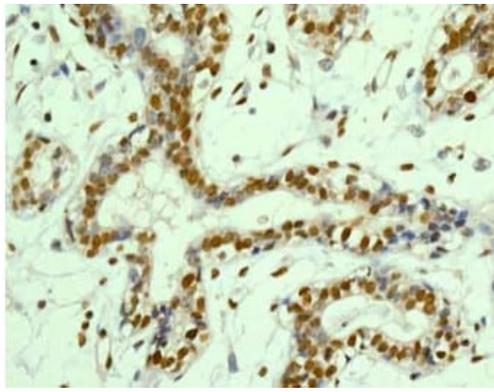
Observed band size: 60 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling PNK/PNKP with ab181107 at 1/100 dilution. Counter stain Hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

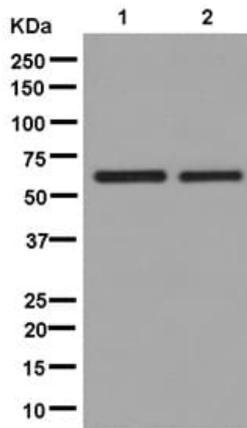


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107)

Immunohistochemical analysis of paraffin-embedded Human breast tissue labeling PNK/PNKP with ab181107 at 1/100 dilution.

Counter stain Hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107)

All lanes : Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : PC-3 cell lysate

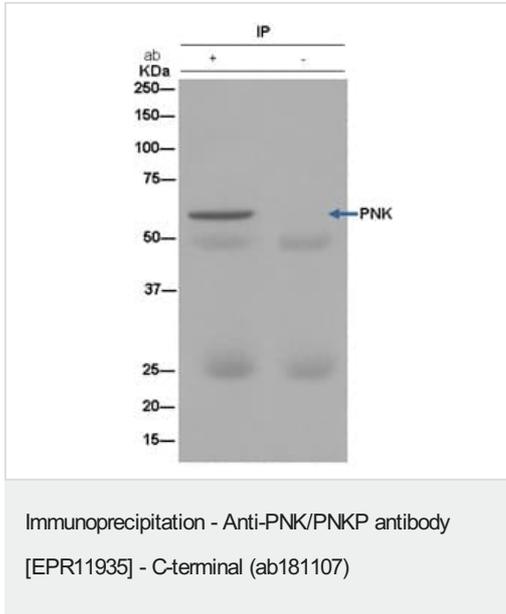
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 57 kDa

Observed band size: 60 kDa



Western blot analysis of PNK/PNKP in immunoprecipitation pellets from HeLa cell lysate. ab181107 used at 1/20 dilution. Secondary antibody Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500. Right lane shows negative control.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PNK/PNKP antibody [EPR11935] - C-terminal (ab181107)

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

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