

Product datasheet

Anti-Nucleoside phosphorylase antibody [EPR5714] ab109559

KO VALIDATED Recombinant RabMAb[®]

3 Images

Overview

Product name	Anti-Nucleoside phosphorylase antibody [EPR5714]
Description	Rabbit monoclonal [EPR5714] to Nucleoside phosphorylase
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to residues near the N terminal of Human Nucleoside phosphorylase
Positive control	WB: Jurkat, JAR, 293T and HeLa cell lysate.
General notes	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- 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](#).

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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR5714
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109559** 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		1/10000 - 1/50000. Predicted molecular weight: 32 kDa.
IP		1/10 - 1/100.

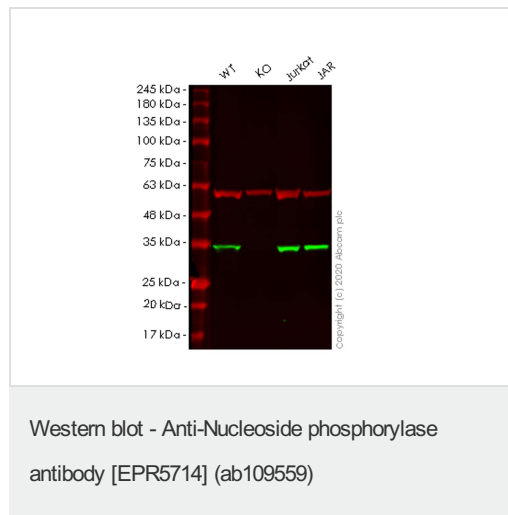
Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Involvement in disease Defects in PNP are the cause of purine nucleoside phosphorylase deficiency (PNP deficiency) [MIM:613179]. It leads to a severe T-cell immunodeficiency with neurologic disorder in children.

Sequence similarities Belongs to the PNP/MTAP phosphorylase family.

Cellular localization Cytoplasm > cytoskeleton.



All lanes : Anti-Nucleoside phosphorylase antibody [EPR5714] (ab109559) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : PNP knockout HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : JAR cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

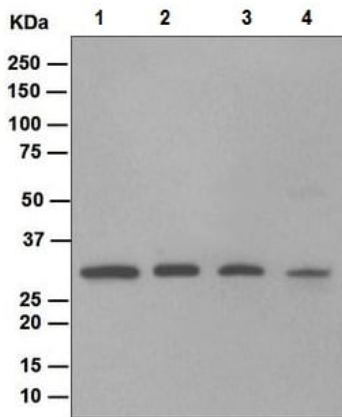
Predicted band size: 32 kDa

Observed band size: 31 kDa

[why is the actual band size different from the predicted?](#)

Lanes 1-4: Merged signal (red and green). Green - ab109559 observed at 31 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab109559 Anti-Nucleoside phosphorylase antibody [EPR5714] was shown to specifically react with Nucleoside phosphorylase in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab266158](#) (knockout cell lysate [ab257594](#)) was used. Wild-type and Nucleoside phosphorylase knockout samples were subjected to SDS-PAGE. ab109559 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Nucleoside phosphorylase antibody [EPR5714] (ab109559)

All lanes : Anti-Nucleoside phosphorylase antibody [EPR5714] (ab109559) at 1/10000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : JAR cell lysate

Lane 3 : 293T cell lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 32 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Nucleoside phosphorylase antibody [EPR5714] (ab109559)

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

Our Promise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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