

## Product datasheet

# Anti-Nucleoside phosphorylase antibody [EPR5714] ab109559

KO VALIDATED Recombinant RabMAb

[1 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-Nucleoside phosphorylase antibody [EPR5714]
<b>Description</b>	Rabbit monoclonal [EPR5714] to Nucleoside phosphorylase
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Jurkat, JAR, 293T and HeLa cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5714
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** 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
<b>WB</b>		1/10000 - 1/50000. Predicted molecular weight: 32 kDa.

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

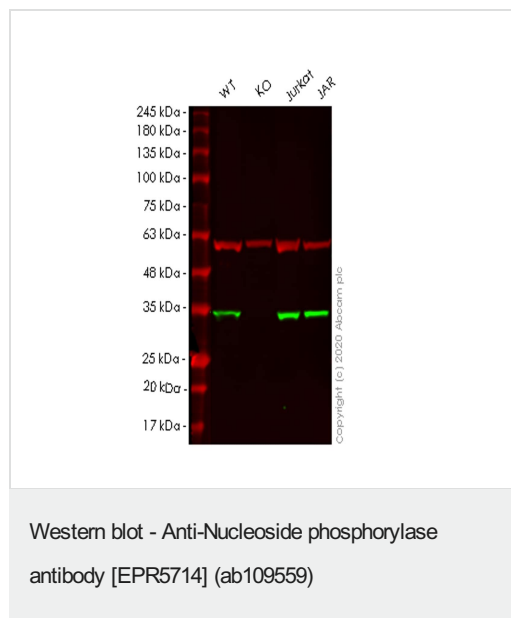
## Target

**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.

## Images



**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

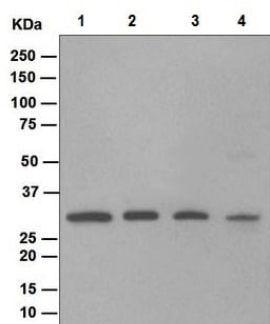
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 31 kDa

**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"

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