

## Product datasheet

# Anti-Nucleoside phosphorylase antibody [EPR5715] ab109447

KO VALIDATED Recombinant RabMAb

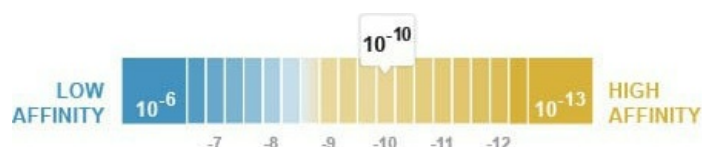
5 Images

### Overview

Product name	Anti-Nucleoside phosphorylase antibody [EPR5715]
Description	Rabbit monoclonal [EPR5715] to Nucleoside phosphorylase
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, ICC/IF <b>Unsuitable for:</b> IHC-P or IP
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, Jurkat, JAR, K562, Human placenta, and 293T lysates. ICC/IF: SH SY5Y cells.
General notes	<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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 1.76 x 10 <sup>-10</sup> M



**Learn more about K<sub>D</sub>**

<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>	EPR5715
<b>Isotype</b>	IgG

**Applications**

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109447 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

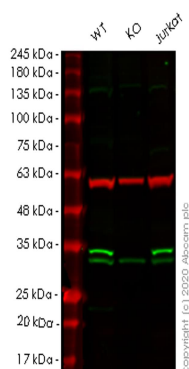
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 31 kDa (predicted molecular weight: 32 kDa).
<b>ICC/IF</b>		1/100 - 1/250.

**Application notes** Is unsuitable for IHC-P or IP.

**Target**

<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the PNP/MTAP phosphorylase family.
<b>Cellular localization</b>	Cytoplasm > cytoskeleton.

**Images**



Western blot - Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447)

**All lanes :** Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** PNP knockout HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

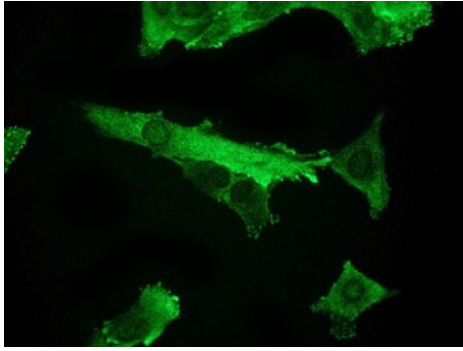
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 31 kDa

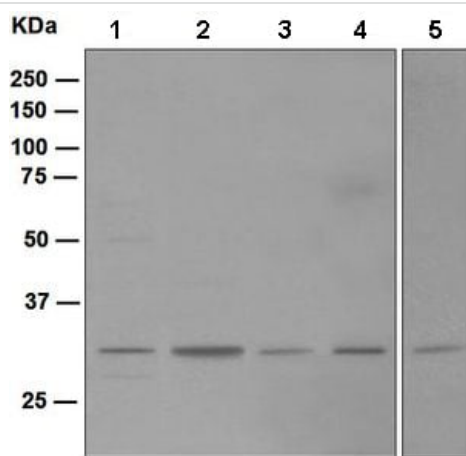
**Lanes 1-3:** Merged signal (red and green). Green - ab109447 observed at 31 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab109447 Anti-Nucleoside phosphorylase antibody [EPR5715] 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. ab109447 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.



Immunocytochemistry/ Immunofluorescence - Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447)

ab109447 at 1/100 dilution staining Nucleoside phosphorylase in SH SY5Y cells by Immunofluorescence.



Western blot - Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447)

**All lanes** : Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447) at 1/1000 dilution

**Lane 1** : Jurkat lysate

**Lane 2** : JAR lysate

**Lane 3** : K562 lysate

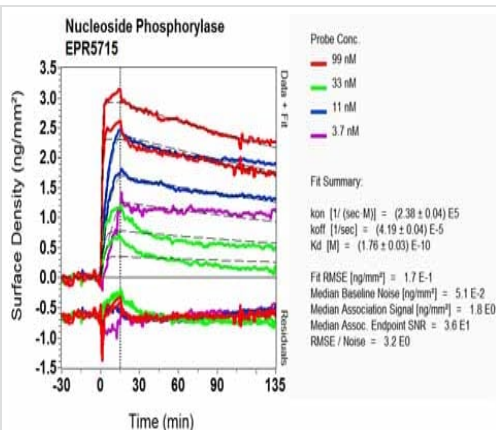
**Lane 4** : Human placenta lysate

**Lane 5** : 293T lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 32 kDa

**Observed band size:** 31 kDa



Ox-RD Scanning - Anti-Nucleoside phosphorylase antibody [EPR5715] (ab109447)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### 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 [EPR5715]  
(ab109447)

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

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- 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

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