

## Product datasheet

# Anti-IgG1 antibody [EPR4417] ab108969

Recombinant RabMAb

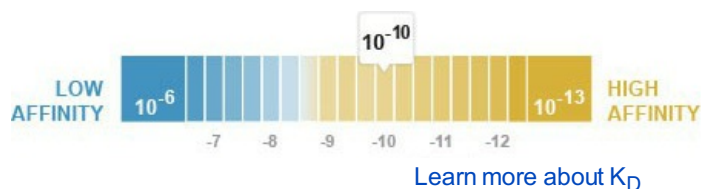
[1 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-IgG1 antibody [EPR4417]
<b>Description</b>	Rabbit monoclonal [EPR4417] to IgG1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human IgG1 aa 50-150 (Hinge). The exact sequence is proprietary.
<b>Positive control</b>	Human tonsil and human spleen lysates.
<b>General notes</b>	<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> <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><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.

**Dissociation constant (K<sub>D</sub>)**K<sub>D</sub> = 3.87 x 10<sup>-10</sup> M**Storage buffer**

pH: 7.40

Preservative: 0.01% Sodium azide

Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

**Purity**

Protein A purified

**Clonality**

Monoclonal

**Clone number**

EPR4417

**Isotype**

IgG

**Applications**

Our [Abpromise guarantee](#) covers the use of **ab108969** 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		1/1000 - 1/10000. Predicted molecular weight: 36 kDa.

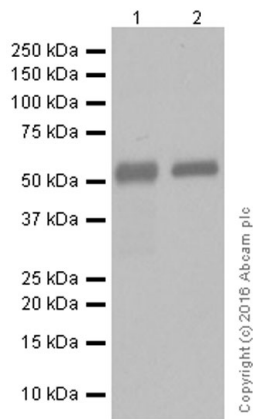
**Target****Relevance**

There are four IgG subclasses (IgG1, 2, 3 and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

**Cellular localization**

Secreted. Cell membrane; Single-pass membrane protein

**Images**



Western blot - Anti-IgG1 antibody [EPR4417] (ab108969)

**All lanes** : Anti-IgG1 antibody [EPR4417] (ab108969) at 1/10000 dilution (purified)

**Lane 1** : Human tonsil lysate

**Lane 2** : Human spleen lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

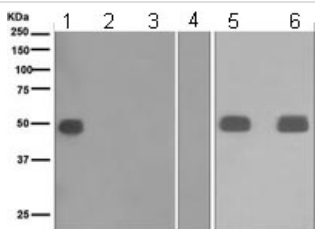
**All lanes** : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 36 kDa

**Observed band size:** 52 kDa

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

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-IgG1 antibody [EPR4417] (ab108969)

**All lanes** : Anti-IgG1 antibody [EPR4417] (ab108969) at 1/1000 dilution (unpurified)

**Lane 1** : IgG1 at 0.01 µg

**Lane 2** : IgG2 at 0.01 µg

**Lane 3** : IgG3 at 0.01 µg

**Lane 4** : IgG4 at 0.01 µg

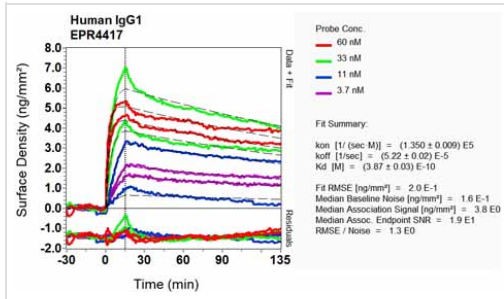
**Lane 5** : Human tonsil lysate at 10 µg

**Lane 6** : Human spleen lysate at 10 µg

**Secondary**

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 36 kDa



Other - Anti-IgG1 antibody [EPR4417] (ab108969)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

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

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