


## Product datasheet

# Anti-GLYR1 antibody [EPR10076(B)] ab154838

**KO VALIDATED** Recombinant RabMAB<sup>®</sup>

5 Images

### Overview

<b>Product name</b>	Anti-GLYR1 antibody [EPR10076(B)]
<b>Description</b>	Rabbit monoclonal [EPR10076(B)] to GLYR1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK293T, Jurkat, HeLa, K562 and HUVEC cell lysates. IHC-P: Human colon and skin tissues.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number                   EPR10076(B)

Isotype                           IgG

## Applications

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**The Abpromise guarantee**           Our **Abpromise guarantee** covers the use of ab154838 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: 61 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes**                   Is unsuitable for Flow Cyt, ICC/IF or IP.

## Target

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**Function**                               May have oxidoreductase activity. Regulates p38 MAP kinase activity by mediating stress activation of p38alpha/MAPK14 and specifically regulating MAPK14 signaling. Indirectly promotes phosphorylation of MAPK14 and activation of ATF2. The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6. Recruited on chromatin, recognizes and binds trimethylated 'Lys-36' of histone H3 (H3K36me3).

**Sequence similarities**               Belongs to the 3-hydroxyisobutyrate dehydrogenase family. NP60 subfamily.  
Contains 1 A.T hook DNA-binding domain.  
Contains 1 PWWP domain.

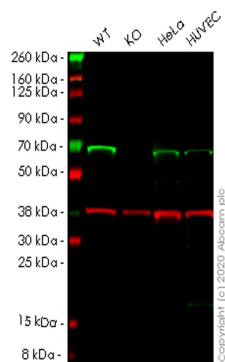
**Domain**                                 The A.T hook DNA-binding domain is required for the interaction with MAPK14.  
The PWWP domain probably mediates the binding to H3K36me3.

**Cellular localization**               Nucleus.

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## Images

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Western blot - Anti-GLYR1 antibody [EPR10076(B)]  
(ab154838)

**All lanes** : Anti-GLYR1 antibody [EPR10076(B)] (ab154838) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : GLYR1 knockout HEK293T cell lysate

**Lane 3** : HeLa cell lysate

**Lane 4** : HUVEC cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

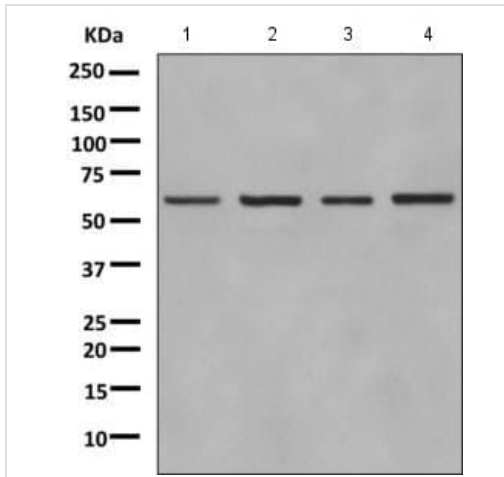
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 61 kDa

**Observed band size:** 61 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab154838 observed at 61 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab154838 Anti-GLYR1 antibody [EPR10076(B)] was shown to specifically react with GLYR1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266610** (knockout cell lysate **ab257968**) was used. Wild-type and GLYR1 knockout samples were subjected to SDS-PAGE. ab154838 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C 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-GLYR1 antibody [EPR10076(B)] (ab154838)

**All lanes :** Anti-GLYR1 antibody [EPR10076(B)] (ab154838) at 1/1000 dilution

**Lane 1 :** Jurkat cell lysate

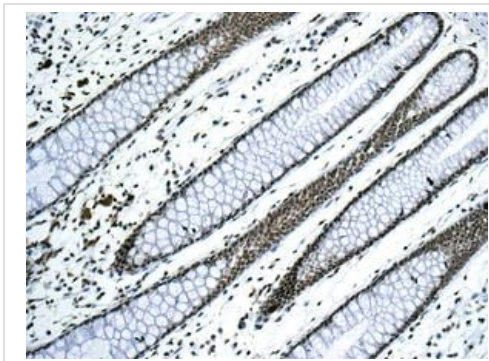
**Lane 2 :** HeLa cell lysate

**Lane 3 :** K562 cell lysate

**Lane 4 :** HUVEC cell lysate

Lysates/proteins at 10 µg per lane.

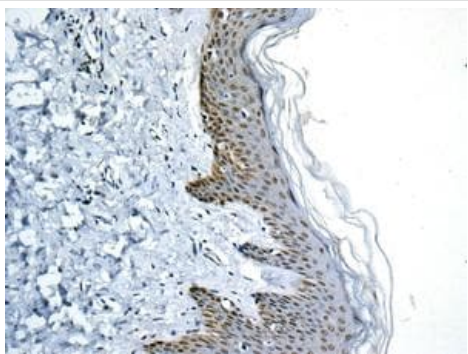
**Predicted band size:** 61 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GLYR1 antibody [EPR10076(B)] (ab154838)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human colon tissue, labeling GLYR1 using ab154838 at a 1/100 dilution.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GLYR1 antibody [EPR10076(B)] (ab154838)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin tissue, labeling GLYR1 using ab154838 at a 1/100 dilution.

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

### 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-GLYR1 antibody [EPR10076(B)] (ab154838)

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

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