

## Product datasheet

# Anti-GBP2 antibody [EPR13206] - N-terminal ab179829

**KO VALIDATED** Recombinant RabMAb

[1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-GBP2 antibody [EPR13206] - N-terminal
<b>Description</b>	Rabbit monoclonal [EPR13206] to GBP2 - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide within Human GBP2 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P32456</a>
<b>Positive control</b>	WB: Human spleen, IM-9, HACAT, A549 and K562 lysates.
<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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13206
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab179829 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 - 1/5000. Predicted molecular weight: 67 kDa.

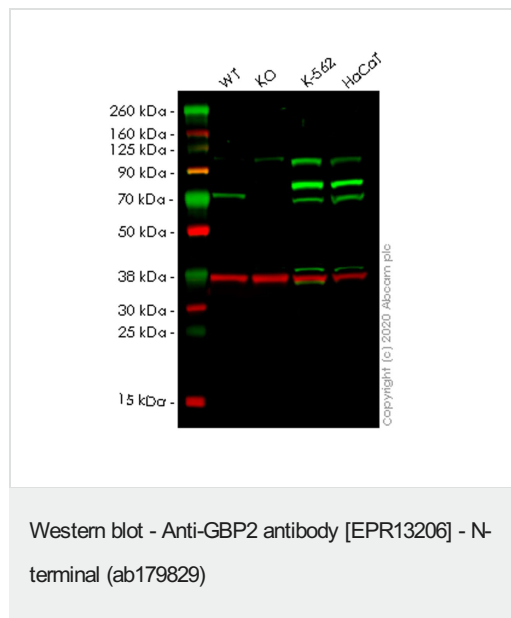
**Application notes** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

**Relevance** Guanylate-binding proteins (GBPs) are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP). GBP2 is a GTPase that converts GTP to GDP and GMP.

**Cellular localization** Cell membrane; Lipid-anchor; Cytoplasmic side

## Images



**All lanes** : Anti-GBP2 antibody [EPR13206] - N-terminal (ab179829) at 1/1000 dilution

**Lane 1** : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2** : GBP2 knockout A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 3** : K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate

**Lane 4** : HaCaT (Human keratinocyte cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

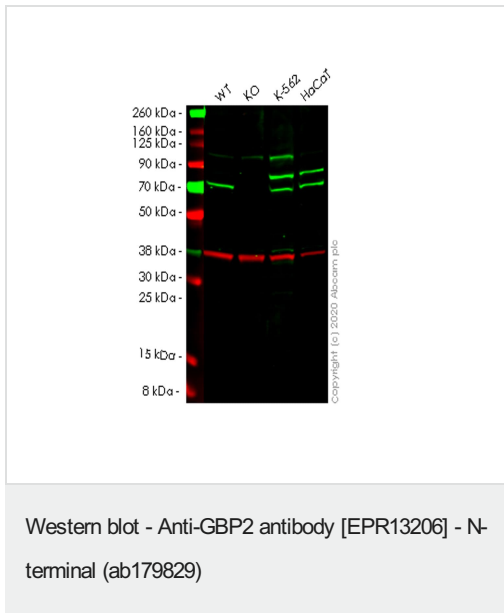
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 67 kDa

**Observed band size:** 67 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab179829 observed at 67 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab179829 Anti-GBP2 antibody [EPR13206] - N-terminal was shown to specifically react with GBP2 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267218** (knockout cell lysate **ab257962**) was used. Wild-type and GBP2 knockout samples were subjected to SDS-PAGE. ab179829 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.



**All lanes :** Anti-GBP2 antibody [EPR13206] - N-terminal (ab179829) at 1/1000 dilution

**Lane 1 :** Wild-type A549 cell lysate

**Lane 2 :** GBP2 knockout A549 cell lysate

**Lane 3 :** K-562 cell lysate

**Lane 4 :** HaCaT 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

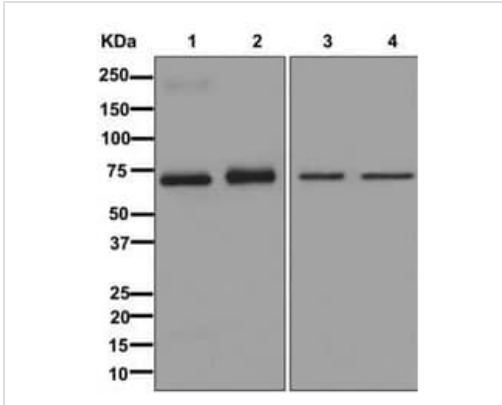
**Predicted band size:** 67 kDa

**Observed band size:** 70 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab179829 observed at 70 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab179829 Anti-GBP2 antibody [EPR13206] - N-terminal was shown to specifically react with GBP2 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267219** (knockout cell lysate **ab257963**) was used. Wild-type and GBP2 knockout samples were subjected to SDS-PAGE. ab179829 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-GBP2 antibody [EPR13206] - N-terminal (ab179829)

**All lanes :** Anti-GBP2 antibody [EPR13206] - N-terminal (ab179829) at 1/1000 dilution

**Lane 1 :** Human spleen cell lysate

**Lane 2 :** IM-9 cell lysate

**Lane 3 :** HACAT cell lysate


**Lane 4 :** K562 cell lysate

#### Secondary


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

**Predicted band size:** 67 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-GBP2 antibody [EPR13206] - N-terminal (ab179829)

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

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