

Product datasheet

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

KO VALIDATED Recombinant RabMAb

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

Overview

Product name	Anti-GBP2 antibody [EPR13206] - N-terminal
Description	Rabbit monoclonal [EPR13206] to GBP2 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human GBP2 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: P32456
Positive control	WB: Human spleen, IM-9, HACAT, A549 and K562 lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR13206
Isotype	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.

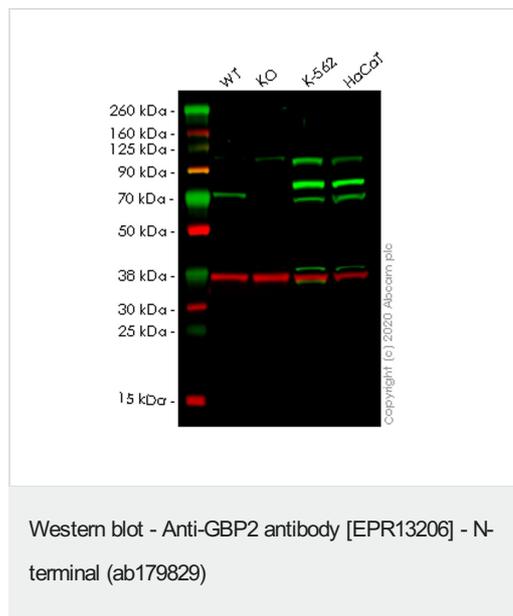
Application notes Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

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

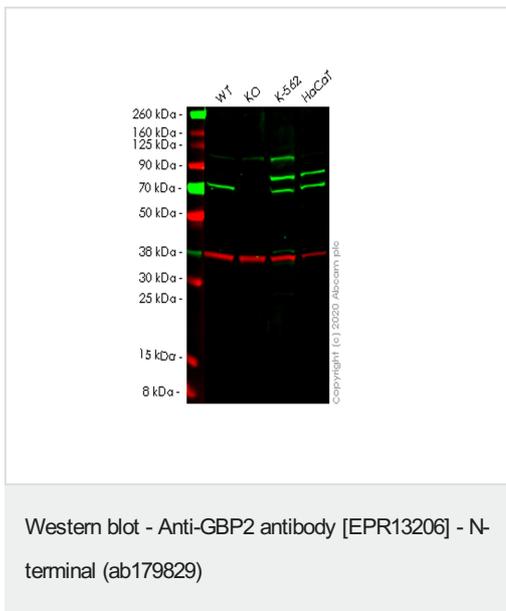
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

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

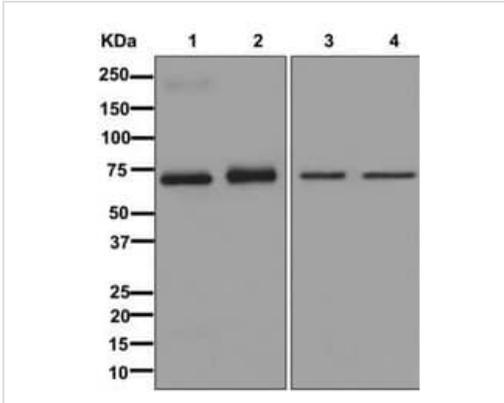
Predicted band size: 67 kDa

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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