abcam

Product datasheet

Anti-GBP1 antibody [EPR8285] - BSA and Azide free ab240050

KO VALIDATED Recombinant RabMAb

5 Images

Overview

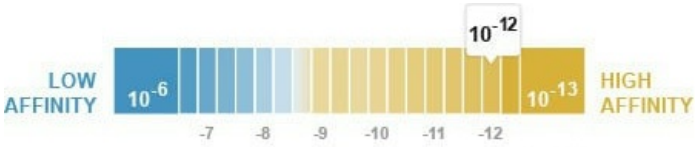
Product name	Anti-GBP1 antibody [EPR8285] - BSA and Azide free
Description	Rabbit monoclonal [EPR8285] to GBP1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549 and HeLa (Untreated or treated with 10ng/ml IFN-? for 24 hours) cell lysates. ICC/IF: IFN-? induced HeLa cells. IHC-P: Human spleen tissue.
General notes	ab240050 is the carrier-free version of **ab131255**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 2.00 \times 10^{-12}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8285
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240050 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

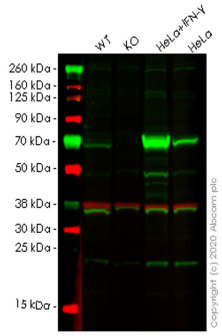
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	Binds GTP, GDP and GMP.
Sequence similarities	Belongs to the GBP family.
Cellular localization	Cell membrane.

Images



Western blot - Anti-GBP1 antibody [EPR8285] - BSA and Azide free (ab240050)

All lanes : Anti-GBP1 antibody [EPR8285] (**ab131255**) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : GBP1 knockout A549 cell lysate
Lane 3 : HeLa treated with 10ng/ml IFN-? for 24 hours, whole cell lysate
Lane 4 : Untreated HeLa cell lysate

Lysates/proteins at 20 µg per lane.

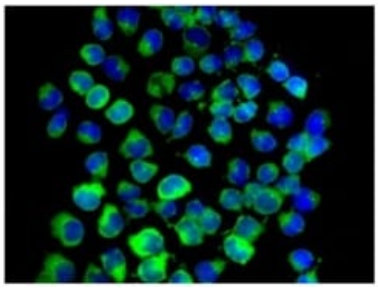
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 68 kDa
Observed band size: 68 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab131255**).

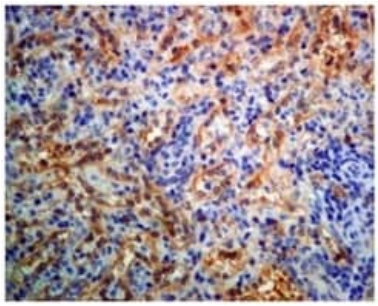
Lanes 1-4: Merged signal (red and green). Green - **ab131255** observed at 68 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab131255 Anti-GBP1 antibody [EPR8285] was shown to specifically react with GBP1 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267202** (knockout cell lysate **ab257960**) was used. Wild-type and GBP1 knockout samples were subjected to SDS-PAGE. **ab131255** 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.



Immunocytochemistry/ Immunofluorescence - Anti-GBP1 antibody [EPR8285] - BSA and Azide free (ab240050)

Immunofluorescent analysis of IFN-gamma induced HeLa cells labelling GBP1 with **ab131255** antibody at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab131255**).

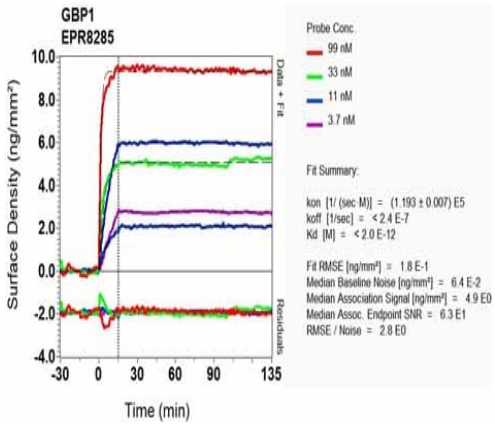


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GBP1 antibody [EPR8285] - BSA and Azide free (ab240050)

Immunohistochemical analysis of paraffin embedded Human spleen tissue labelling GBP1 with **ab131255** antibody at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab131255**).

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



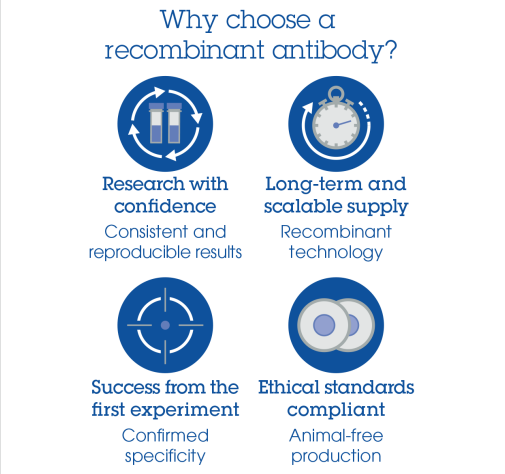
OI-RD Scanning - Anti-GBP1 antibody [EPR8285] - BSA and Azide free (ab240050)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab131255**).



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