abcam

ab250244

Anti-EBP1 antibody [EPR14568(B)] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR14568(B)
Purification technique	Affinity purification
Concentration	1.03 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information PA2G4

Function May play a role in a ERBB3-regulated signal transduction pathway. Seems be involved in growth regulation. Acts a corepressor of the androgen receptor (AR) and is regulated by the ERBB3 ligand neuregulin-1/heregulin (HRG). Inhibits transcription of some E2F1-regulated promoters, probably by recruiting histone acetylase (HAT) activity. Binds RNA. Associates with 28S, 18S and 5.8S mature rRNAs, several rRNA precursors and probably U3 small nucleolar RNA. May be involved in regulation of intermediate and late steps of rRNA processing. May be involved in ribosome assembly. Mediates cap-independent translation of specific viral IRESs (internal ribosomal entry site) (By similarity). Regulates cell proliferation, differentiation, and survival. Isoform 1 suppresses apoptosis whereas isoform 2 promotes cell differentiation (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250244 is the carrier-free version of ab180603.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The EBP1 protein also known as ErbB3-binding protein 1 plays an important role in cellular mechanisms. With a mass of about 39 kDa EBP1 is widely expressed in various tissues including the heart liver and brain. The protein acts as an RNA-binding protein and it has demonstrated influence in the regulation of ribosomal RNA synthesis and processing. EBP1 also interacts with multiple other proteins which aid in its regulatory roles in the cells.

Biological function summary	EBP1 functions as a part of the cellular machinery involved in growth and differentiation. It associates with the eukaryotic translation initiation factor 4G (eIF4G) as part of a complex which modulates the translation of certain messenger RNAs. Furthermore EBP1 can function as a transcriptional co-repressor in the nucleus where it influences gene expression by interacting with DNA. Its activity in these roles highlights its important function in cell cycle regulation and cellular proliferation.
Pathways	Many signaling mechanisms engage EBP1. The PI3K/AKT pathway sees participation from EBP1 where it downstream affects cell survival and growth. EBP1 also interacts with the NF-κB pathway contributing to the regulation of immune and stress responses. In these pathways interactions with key proteins like AKT and NF-κB p65 emphasize its role in integrating signaling cues for responses to environmental stimuli.
Associated diseases and disorders	EBP1 has shown associations with cancer and neurodegenerative diseases. Its connection with cancer is evident as EBP1 influences cell proliferation and can affect tumor suppressor pathways sometimes interacting with proteins like HER2. In neurodegenerative diseases deregulation of EBP1 function has been seen in conditions such as Alzheimer's potentially interacting with proteins involved in tau phosphorylation. Both examples demonstrate the biological significance of EBP1 in maintaining normal physiological function and its contributions to pathology when dysregulated.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

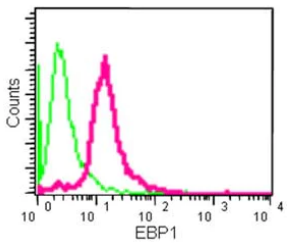
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

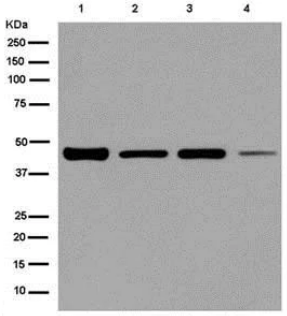
2 product images



Flow Cytometry (Intracellular) - Anti-EBP1 antibody [EPR14568(B)] - BSA and Azide free (ab250244)

EBP1 Flow Cytometry (Intracellular) staining using rabbit Anti-EBP1 antibody

This data was developed using ab180603, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat cells labeling EBP1 with ab180603 at 1/20 dilution (red) compared to a Rabbit monoclonal IgG Isotype control (green), followed by Goat anti rabbit IgG (FITC) at 1/150 dilution.



Western blot - Anti-EBP1 antibody [EPR14568(B)] - BSA and Azide free (ab250244)

This data was developed using ab180603, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-EBP1 antibody [EPR14568(B)] (ab180603) at 1/10000 dilution

Lane 1:
293T cell lysate at 20 µg

Lane 2:
HeLa cell lysate at 20 µg

Lane 3:
Jurkat cell lysate at 20 µg

Lane 4:
A431 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 44 kDa

Observed band size: 48 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.