abcam

Product datasheet

Anti-CGBP antibody [EPR19199] - BSA and Azide free ab242431

KO VALIDATED Recombinant RabMAb

10 Images

Overview

Product name	Anti-CGBP antibody [EPR19199] - BSA and Azide free
Description	Rabbit monoclonal [EPR19199] to CGBP - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ChIP, IHC-P, WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Mouse cerebrum and rat cerebellum tissues. ICC/IF: Hela and NIH/3T3 cells. Flow Cyt (intra): 293T and NIH/3T3 cells. IP: HeLa whole cell lysate.
General notes	ab242431 is the carrier-free version of **ab198977**. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19199
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab242431 in the following tested applications.

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

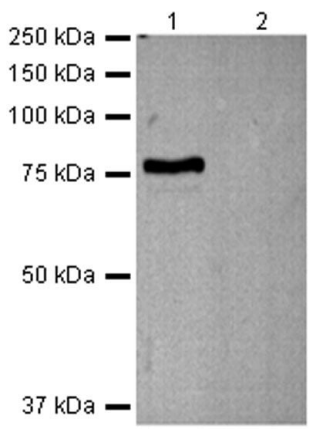
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC is recommended for rat and mouse only
WB		Use at an assay dependent concentration. Detects a band of approximately 76 kDa (predicted molecular weight: 76 kDa).
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Transcriptional activator that exhibits a unique DNA binding specificity for [AC]CpG[AC] unmethylated CpG motifs.
Tissue specificity	Ubiquitous.
Sequence similarities	Contains 1 CXXC-type zinc finger. Contains 1 PHD-type zinc finger.
Domain	The acidic domain carries the potential to activate transcription.
Post-translational modifications	May be regulated by proteolysis.

Cellular localization	Nucleus speckle. Associated with euchromatin. During mitosis, excluded from condensed chromosomes.

Images



Western blot - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

All lanes : Anti-CGBP antibody [EPR19199] - ChIP Grade (**ab198977**) at 1/500 dilution

Lane 1 : WT HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : CFP1(CGBP) KO HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Secondary
All lanes : Goat anti-Rabbit IgG (H+L), HRP at 1/5000 dilution

Predicted band size: 76 kDa
Observed band size: 76 kDa

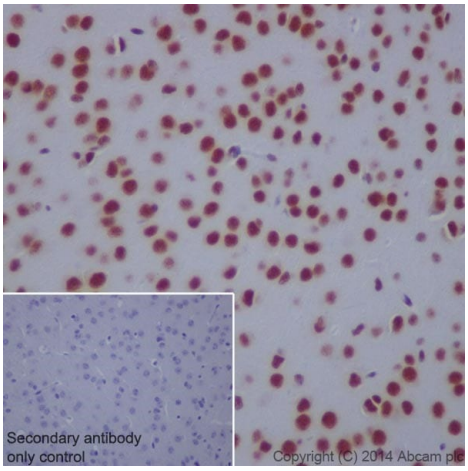
Exposure time: 15 seconds

Blocking buffer: 5% NFDM/TBST.

Dilution buffer: 1% BSA/TBST.

This data is from our collaborator Hengyu-Fan's lab (Life Sciences Institute Zhejiang University).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling CGBP with **ab198977** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

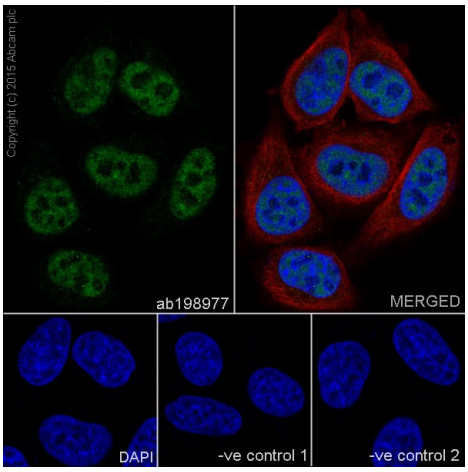
Nuclear staining on mouse cerebrum tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling CGBP with **ab198977** at 1/250 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear staining on HeLa cell line.

The nuclear counterstain is DAPI (blue).

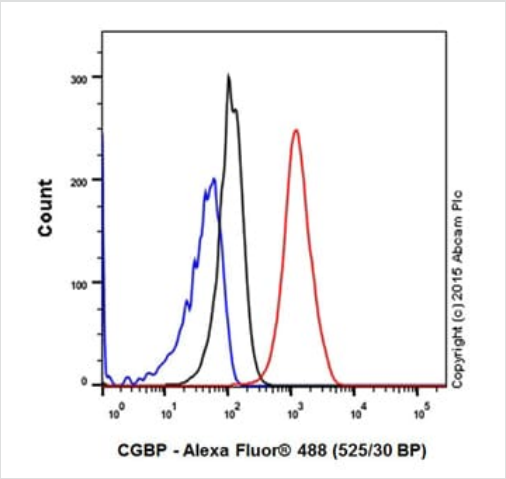
Tubulin is detected with Anti-alpha Tubulin-Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: **ab198977** at 1/250 dilution followed by **ab150120** at 1/1000 dilution.

-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.

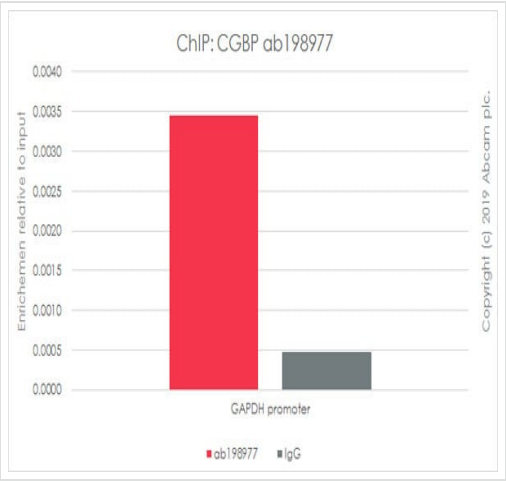
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).



Flow Cytometry (Intracellular) - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

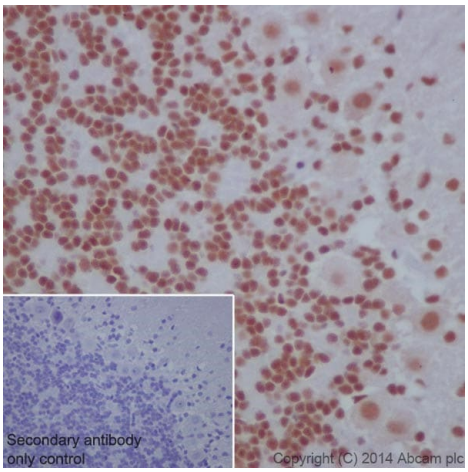
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 cells labeling CGBPwith **ab198977** at 1/150 dilution (red) compared with a Rabbit IgG,monoclonal-Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti Rabbit IgG (FITC) at a dilution of 1/500 was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).



ChIP - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Chromatin was prepared from HeLa cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.
The ChIP was performed with 25 µg of chromatin, 5 µg of **ab198977** (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).
Primers and probes are located in the first kb of the transcribed region.
*http://www.abcam.com/resources?keywords=X%20ChIP%20protocol
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Immunohistochemical analysis of paraffin-embedded Rat cerebellum tissue labeling CGBP with **ab198977** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

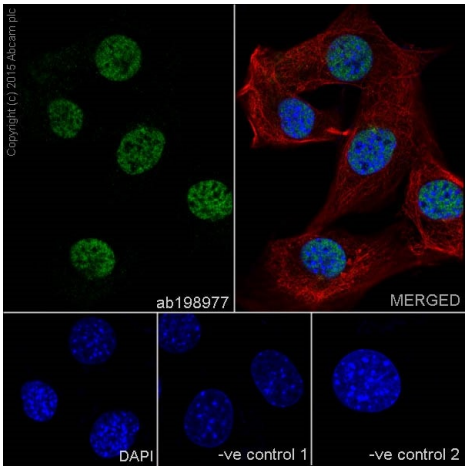
Nuclear staining on rat cerebellum tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling CGBP with **ab198977** at 1/250 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear staining on NIH/3T3 cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected Anti-alpha Tubulin antibody - Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

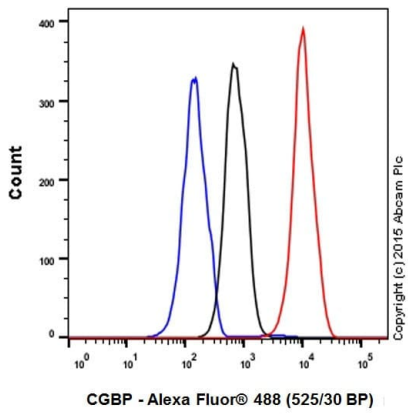
The negative controls are as follows:-

-ve control 1: **ab198977** at 1/250 dilution followed by **ab150120** at 1/1000 dilution.

-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

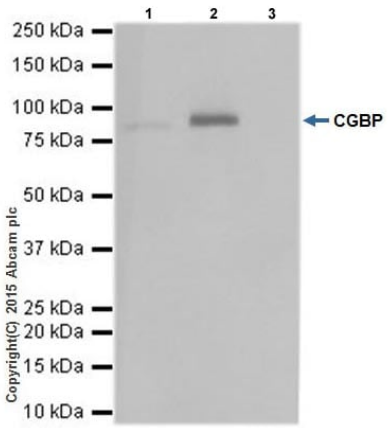
sodium azide (**ab198977**).



Flow Cytometry (Intracellular) - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed 293T (Human epithelial cell line from embryonic kidney) cells labeling CGBPwith **ab198977** at 1/150 dilution (red) compared with a Rabbit IgG,monoclonal [EPR25A] - Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti Rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**).



Immunoprecipitation - Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

CGBP was immunoprecipitated from 1mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with **ab198977** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab198977** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HeLa whole cell lysate, 10µg (Input).

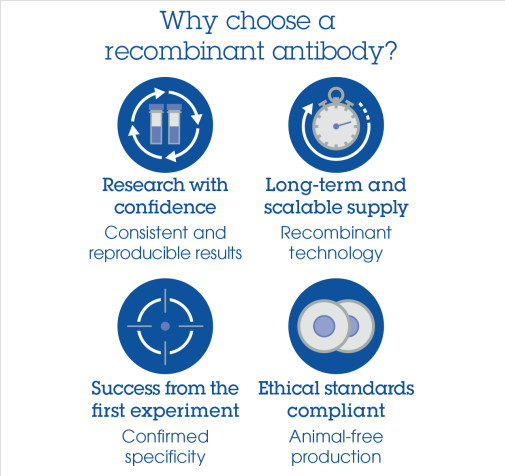
Lane 2: **ab198977** IP in HeLa whole cell lysate.

Lane 3: Rabbit IgG,monoclonal [EPR25A] -Isotype Control (**ab172730**) instead of **ab198977** in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab198977**)



Anti-CGBP antibody [EPR19199] - BSA and Azide free (ab242431)

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