abcam

Product datasheet

Anti-Fos B antibody [EPR23489-90] - BSA and Azide free ab269953

Recombinant RabMAb

6 Images

Overview

Product name	Anti-Fos B antibody [EPR23489-90] - BSA and Azide free
Description	Rabbit monoclonal [EPR23489-90] to Fos B - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, Flow Cyt (Intra), IP, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB & IP: HeLa whole cell lysate, serum starved o/n, then treated with 200 nM 12-o-tetradecanoyl phorbol 13-acetate for 4 hrs. IHC-P: Human breast cancer and hippocampus tissue. ICC/IF: HeLa cells, starved o/n, then treated with 200 nM 12-o-tetradecanoyl phorbol 13-acetate for 4 hrs. Flow Cyt (intra): HeLa cells, serum starved o/n, then treated with 200 nM 12-o-tetradecanoyl phorbol 13-acetate for 4 hrs.
General notes	ab269953 is the carrier-free version of **ab252237**. 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	EPR23489-90
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269953 in the following tested applications.

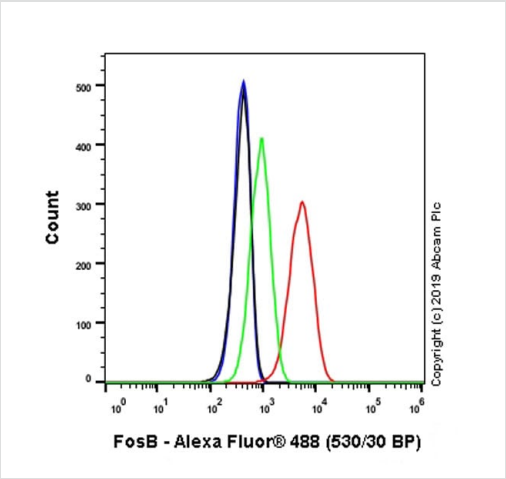
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 36 kDa.

Target

Function	FosB interacts with Jun proteins enhancing their DNA binding activity.
Sequence similarities	Belongs to the bZIP family. Fos subfamily. Contains 1 bZIP domain.
Cellular localization	Nucleus.

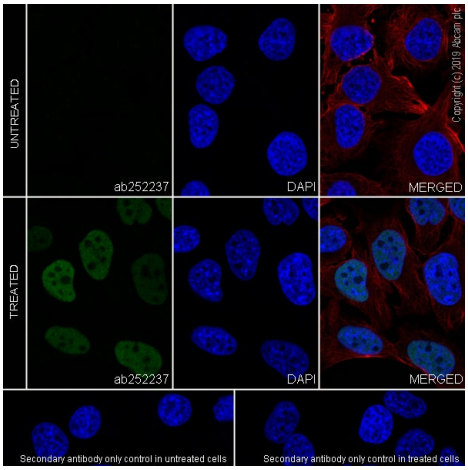
Images



Flow Cytometry (Intracellular) - Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) was serum starved for 16 hours, then treated with 200nM 12-O-Tetradecanoylphorbol-13-acetate (TPA) for 4 h (Red) / Untreated control (Green) cells labeling Fos B with **ab252237** at 1/500 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 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 (**ab252237**).

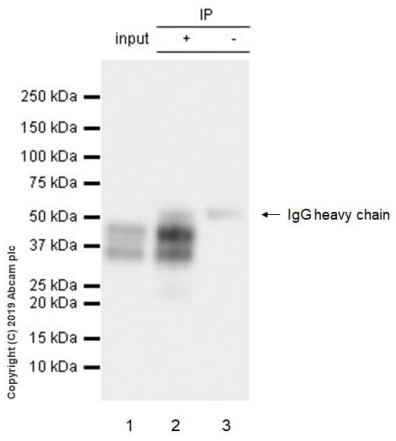


Immunocytochemistry/ Immunofluorescence - Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling Fos B with **ab252237** at 1/500 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in HeLa cells treated with starvation 16 hours, then 12-O-Tetradecanoylphorbol-13-acetate (200nM) for 4 hours. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary 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 (**ab252237**).



Immunoprecipitation - Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

Fos B was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) serum starved overnight, then treated with 200 nM TPA for 4 hours, whole cell lysate 10 µg with **ab252237** at 1/30 dilution (2µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using **ab252237** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: HeLa serum starved overnight, then treated with 200 nM TPA for 4 hours, whole cell lysate 10 µg.

Lane 2: **ab252237** IP in HeLa serum starved overnight, then treated with 200 nM TPA for 4 hours, whole cell lysate.

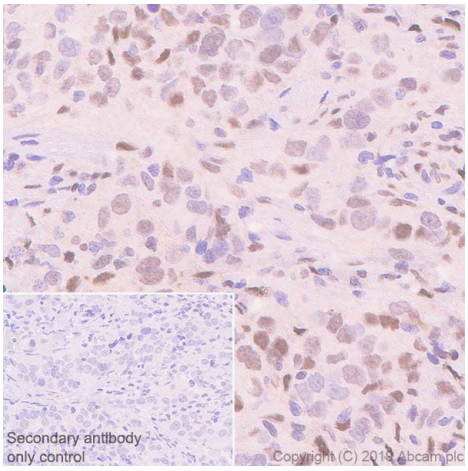
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab252237** in HeLa serum starved overnight, then treated with 200 nM TPA for 4 hours, whole cell lysate.

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

Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab252237**).

The band around 37kDa is caused by splicing isoform.



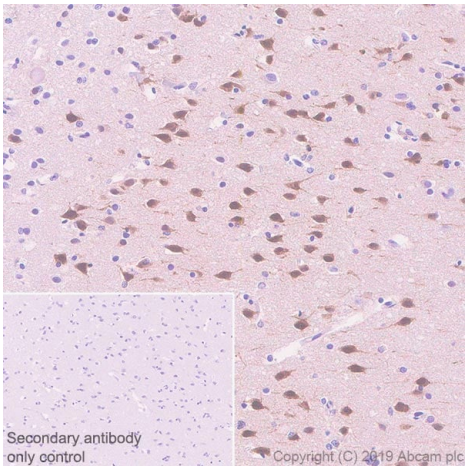
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Fos B with **ab252237** at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive nuclear staining in cancer cells of human breast cancer is observed (PMID: 12602926). The section was incubated with **ab252237** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab252237**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

Immunohistochemical analysis of paraffin-embedded human hippocampus tissue labeling Fos B with **ab252237** at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive nuclear staining in neurons of human hippocampus is observed (PMID: 29805976). The section was incubated with **ab252237** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

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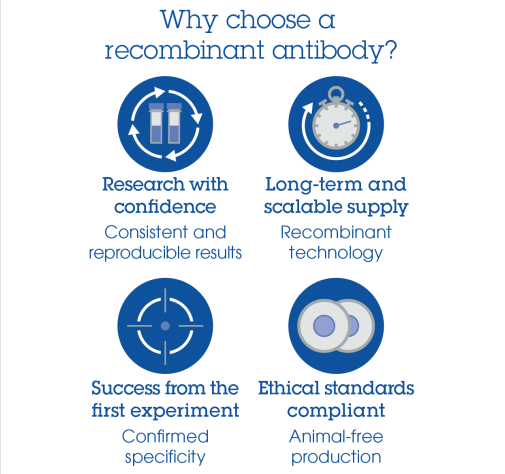

Anti-Fos B antibody [EPR23489-90] - BSA and Azide free (ab269953)

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