abcam

Product datasheet

# Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free ab248281

Recombinant RabMAb

4 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EPR7669] to BANF1/BAF - BSA and Azide free |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, Flow Cyt (Intra), ICC/IF<br>**Unsuitable for:** IHC-P |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **General notes** | ab248281 is the carrier-free version of **ab129074**.<br><br>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.<br><br>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.<br><br>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.<br><br>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. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **Storage buffer** | pH: 7.2<br>Constituent: PBS |
| **Carrier free** | Yes |

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| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR7669 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab248281 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** | | Use at an assay dependent concentration. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa). |
| **Flow Cyt (Intra)** | | Use at an assay dependent concentration. |
| **ICC/IF** | | Use at an assay dependent concentration. |

**Application notes** Is unsuitable for IHC-P.

## Target

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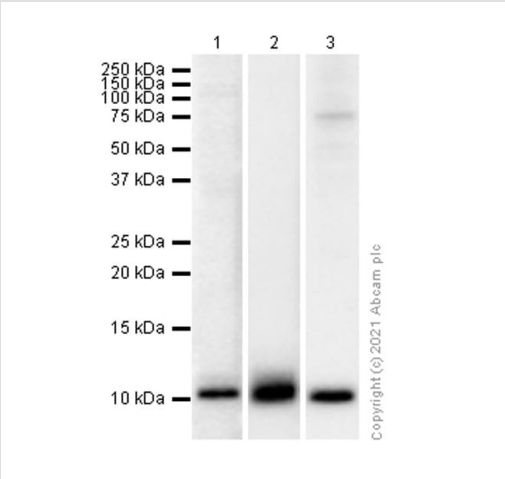
|---|---|
| **Function** | Plays fundamental roles in nuclear assembly, chromatin organization, gene expression and gonad development. May potently compress chromatin structure and be involved in membrane recruitment and chromatin decondensation during nuclear assembly. Contains 2 non-specific dsDNA-binding sites which may promote DNA cross-bridging. Exploited by retroviruses for inhibiting self-destructing autointegration of retroviral DNA, thereby promoting integration of viral DNA into the host chromosome. EMD and BAF are cooperative cofactors of HIV-1 infection. Association of EMD with the viral DNA requires the presence of BAF and viral integrase. The association of viral DNA with chromatin requires the presence of BAF and EMD. |
| **Tissue specificity** | Widely expressed. Expressed in colon, brain, heart, kidney, liver, lung, ovary, pancreas, placenta, prostate, skeletal muscle, small intestine, spleen and testis. Not detected in thymus and peripheral blood leukocytes. |
| **Sequence similarities** | Belongs to the BAF family. |
| **Domain** | Has a helix-hairpin-helix (HhH) structural motif conserved among proteins that bind non-specifically to DNA.<br>LEM domain proteins bind centrally on the BAF dimer, whereas DNA binds to the left and right sides. |
| **Post-translational modifications** | Partially phosphorylated on serine. Ser-4 phosphorylation may block BAF ability to promote EMD binding to lamins in vitro. Non phosphorylated BAF seems to enhances binding between EMD and LMNA. |
| **Cellular localization** | Nucleus. Cytoplasm. Chromosome. Significantly enriched at the nuclear inner membrane, diffusely throughout the nucleus during interphase and concentrated at the chromosomes during the M-phase. May be included in HIV-1 virions via its interaction with viral GAG polyprotein. |

## Images

## Images



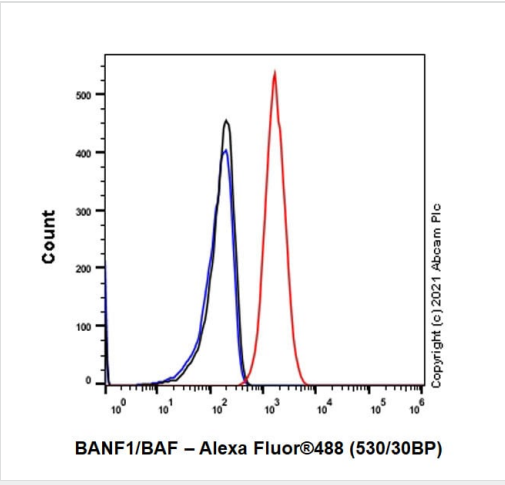

Western blot - Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free (ab248281)

**All lanes :** Anti-BANF1/BAF antibody [EPR7669] (**ab129074**) at 1/1000 dilution (Purified)

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
**Lane 2 :** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate
**Lane 3 :** PC-12 (Rat adrenal gland pheochromocytoma ) whole cell lysate

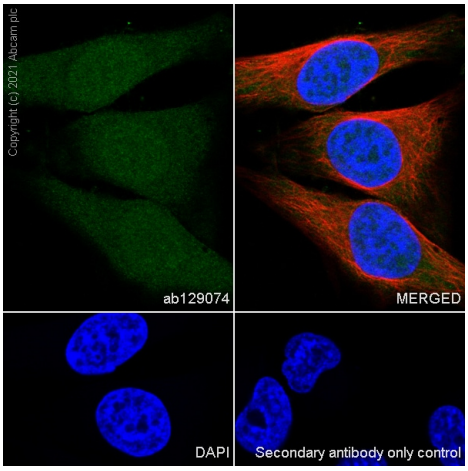
**Secondary**
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 10 kDa



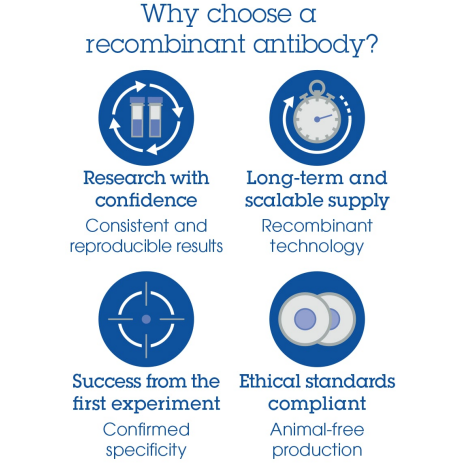

Flow Cytometry (Intracellular) - Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free (ab248281)

This data was developed using ab248281, the same antibody clone in a different buffer formulation.
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling BANF1/BAF with Purified ab248281 at 1:20 dilution (10µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).




Immunocytochemistry/ Immunofluorescence - Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free (ab248281)

This data was developed using ab248281, the same antibody clone in a different buffer formulation.
Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling BANF1/BAF with Purified ab248281 at 1:50 dilution (6.0 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.




Anti-BANF1/BAF antibody [EPR7669] - BSA and Azide free (ab248281)



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