abcam

ab240338

Anti-PBRM1/BAF180 antibody [EPR15860] - BSA and Azide free

Recombinant | RabMAb | KO Validated

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	EPR15860
Purification technique	Affinity purification Protein A
Concentration	1.068 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Expected

Species	Mouse, Human
Dilution info	Use at an assay dependent concentration.

Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

ICC/IF

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	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information PBRM1

Function	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Required for the stability of the SWI/SNF chromatin remodeling complex SWI/SNF-B (PBAF). Acts as a negative regulator of cell proliferation.

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

ab240338 is the carrier-free version of ab196022.

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	PBRM1 also known as BAF180 is an important component of the SWI/SNF chromatin remodeling complex. It has a molecular weight of approximately 187 kDa. Within the cell PBRM1 is expressed in various tissues but shows higher expression in kidney and breast tissues. Its role involves binding to acetylated histones which influences chromatin structure and gene expression regulation.
Biological function summary	The PBRM1/BAF180 protein functions as part of the SWI/SNF complex which includes the catalytic subunit BRG1 or BRM. This complex is important for altering chromatin architecture which regulates access of transcriptional machinery to DNA. It plays a significant role in the control of cell growth and differentiation processes. The structural integrity of PBRM1 is necessary for the functionality of the SWI/SNF complex.
Pathways	PBRM1/BAF180 is an important player in pathways involving chromatin remodeling and transcriptional regulation. It is implicated in the WNT signaling pathway interacting with proteins such as β-catenin to influence gene transcription. It also partakes in the p53 pathway where it contributes to the regulation of cell cycle and apoptosis by modulating p53 activity.
Associated diseases and disorders	Mutations in PBRM1 are frequently observed in renal cell carcinoma. Its disruption affects chromatin remodeling which disrupts normal gene expression contributing to cancer progression. PBRM1 also relates to breast cancer where alterations can promote tumor formation. In these contexts the interaction of PBRM1 with other proteins like VHL in renal carcinoma helps elucidate its role in tumor suppression and development.

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.

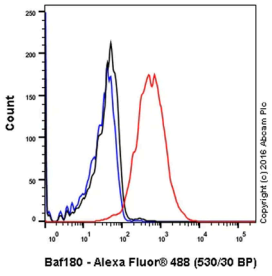
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

3 product images



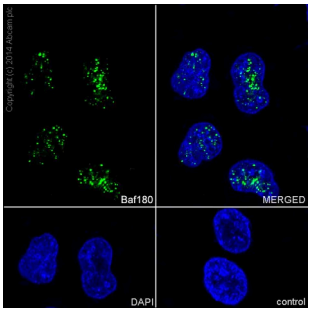
Flow Cytometry (Intracellular) - Anti-PBRM1/BAF180 antibody [EPR15860] - BSA and Azide free (ab240338)

PBRM1/BAF180 Flow Cytometry (Intracellular) staining using rabbit Anti-PBRM1/BAF180 antibody

ab196022 staining PBRM1/BAF180 in the human cell line HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. The sample was incubated with the primary antibody at a dilution of 1/250. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody. Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab196022).



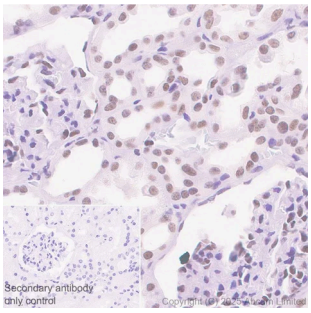
Immunocytochemistry/ Immunofluorescence - Anti-PBRM1/BAF180 antibody [EPR15860] - BSA and Azide free (ab240338)

PBRM1/BAF180 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PBRM1/BAF180 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PBRM1/BAF180 with ab196022 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). The nuclear counter stain is DAPI (blue).
Nuclear staining on HeLa cell line is observed.

-ve control - Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution. The nuclear counter stain is DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab196022).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBRM1/BAF180 antibody [EPR15860] - BSA and Azide free (ab240338)

PBRM1/BAF180 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human kidney using rabbit Anti-PBRM1/BAF180 antibody

This data was developed using ab196022, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling PBRM1/BAF180 with ab196022 at 1/200 dilution.

Nuclear staining on human kidney

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

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