abcam

# ab240239

# Anti-FUBP1/FBP antibody [EPR12327] - 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** | EPR12327 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.051 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## WB

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat, Human |
| **Dilution info** | Use at an assay dependent concentration. |

| | |
|---|---|
| **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** | ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Predicted

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information FUBP1

| | |
|---|---|
| **Function** | Regulates MYC expression by binding to a single-stranded far-upstream element (FUSE) upstream of the MYC promoter. May act both as activator and repressor of transcription. |

## 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

ab240239 is the carrier-free version of ab181111.

**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 far upstream element-binding protein 1 (FUBP1) also known as FBP or FBP west is a single-stranded DNA-binding protein with a molecular mass of approximately 65 kDa. It is expressed in a range of tissues including the liver brain and hematopoietic cells. Mechanically FUBP1 regulates the transcription of genes by binding to the far upstream element (FUSE) located in proximity to transcription start sites. It plays an important role in modulating transcription factors and aids in the stability of mRNA. |
| **Biological function summary** | FUBP1 influences cellular proliferation and differentiation. It does not form part of a larger complex but interacts with different molecules to exert its function. The protein acts as an activator of transcription fostering interaction with RNA polymerase II and other factors to elevate gene expression. FUBP1's activity helps in controlling the cell cycle aiding in the switch between proliferation and cell growth arrest as needed. |
| **Pathways** | FUBP1 participates significantly in the c-Myc regulatory and p53 signaling pathways. In the context of the c-Myc pathway FUBP1 boosts the expression of c-Myc by stabilizing its mRNA a process also influenced by the U2 auxiliary factor (U2AF65). In the p53 signaling pathway FUBP1 indirectly influences p53's role in apoptosis and cellular stress responses as its regulatory balance shifts critical cellular processes depending on external and internal cues. |
| **Associated diseases and disorders** | FUBP1's dysregulation relates to cancer and neurological disorders. Overexpression or aberrant regulation of FUBP1 links to tumorigenesis in cancers like liver cancer partially due to its interaction with c-Myc. Additionally mutations or alterations in FUBP1 are associated with oligodendrogliomas a type of brain tumor. Proteins such as p53 also link to these disorders due to FUBP1's involvement in complex signaling networks. |

## 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.

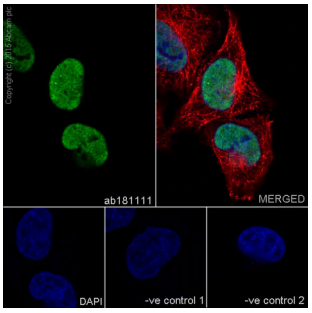
---

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.

## 7 product images



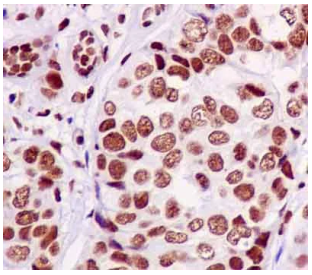

### Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-FUBP1/FBP antibody

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling FUBP1/FBP with purified ab181111 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.
Control 1: primary antibody (1/500) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

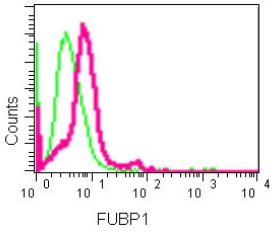


## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FUBP1/FBP antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labeling FUBP1/FBP with unpurified ab181111 at a dilution of 1/500 followed by prediluted HRP Polymer for rabbit IgG. Counterstained with Hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

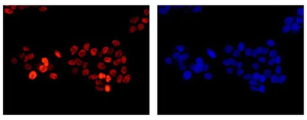
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.




## Flow Cytometry (Intracellular) - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Flow Cytometry (Intracellular) staining using rabbit Anti-FUBP1/FBP antibody

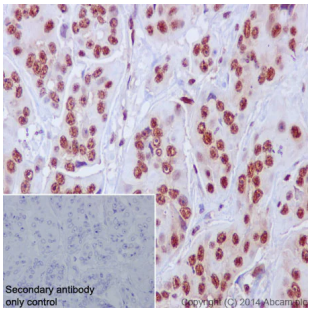
Intracellular flow cytometric analysis of2% paraformaldehyde-fixed Jurkat cells labeling FUBP1/FBP with unpurified ab181111 at a dilution of 1/90 (pink), compared to a rabbit monoclonal IgG isotype control (green), followed by goat anti rabbit IgG (FITC) secondary antibody at a dilution of 1/150.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).



## Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-FUBP1/FBP antibody

Immunocytochemistry/Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 cells labeling FUBP1/FBP with unpurified ab181111 at 1/500 dilution (red) followed by Alexa Fluor® 555-conjugated goat anti rabbit IgG secondary antibody at 1/200 dilution. Counter stained with Dapi (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

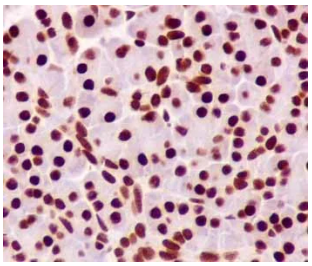



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FUBP1/FBP antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling FUBP1/FBP with purified ab181111 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-

rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

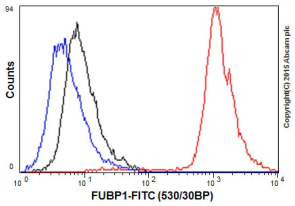


## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FUBP1/FBP antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreas tissue labeling FUBP1/FBP with unpurified ab181111 at a dilution of 1/500 followed by prediluted HRP Polymer for rabbit IgG. Counterstained with Hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

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




## Flow Cytometry (Intracellular) - Anti-FUBP1/FBP antibody [EPR12327] - BSA and Azide free (ab240239)

FUBP1/FBP Flow Cytometry (Intracellular) staining using rabbit Anti-FUBP1/FBP antibody

Intracellular Flow Cytometry analysis of Jurkat cells labelling FUBP1/FBP with purified ab181111 at 1/60 (red). Cells were fixed with 80% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181111).

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