abcam

ab181111

Anti-FUBP1/FBP antibody [EPR12327]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR12327
Purification technique	Affinity purification Protein A
Concentration	0.439 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1/2000
Notes	**For unpurified use at 1/1000 - 1/20000.**

Species	Rat

Dilution info	1/2000
Notes	**For unpurified use at 1/1000 - 1/20000.**

Species	Human
Dilution info	1/2000
Notes	**For unpurified use at 1/1000 - 1/20000.**

ICC/IF

Tested

Species	Human
Dilution info	1/250 - 1/500
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/60 - 1/90
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/250 - 1/500
Notes	See IHC antigen retrieval protocols. Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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

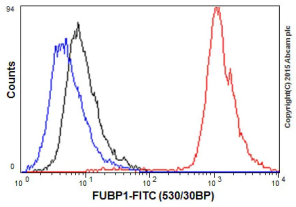
We do not recommend this combination. It is not covered by our product promise.

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.

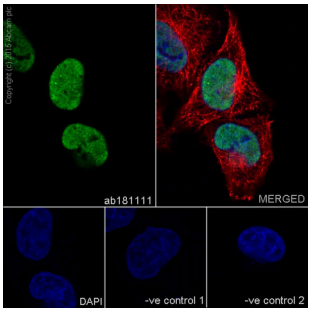
13 product images



Flow Cytometry (Intracellular) - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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.

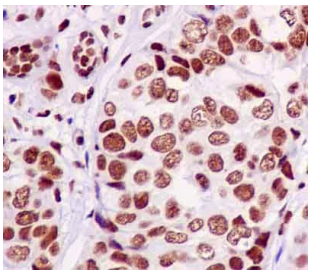


Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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).

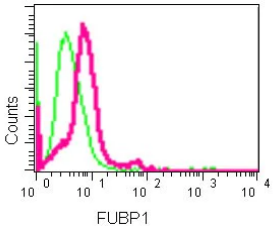
Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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

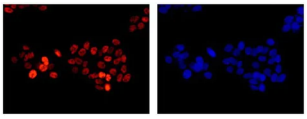
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labeling FUBP1/FBP with unpurified ab181111 at a dilution of 1/500 followed by prediluted HRP Polymer for rabbit IgG. Counterstained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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

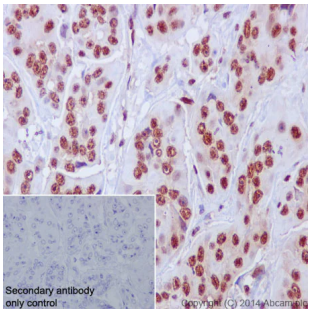
Intracellular flow cytometric analysis of2% paraformaldehyde-fixed Jurkat cells labeling FUBP1/FBP with unpurified ab181111 at a dilution of 1/90 (pink), compared to a rabbit monoclonal IgG isotype control (green), followed by goat anti rabbit IgG (FITC) secondary antibody at a dilution of 1/150.



Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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

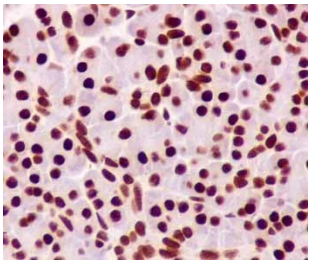
Immunocytochemistry/Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 cells labeling FUBP1/FBP with unpurified ab181111 at 1/500 dilution (red) followed by Alexa Fluor® 555-conjugated goat anti rabbit IgG secondary antibody at 1/200 dilution. Counter stained with Dapi (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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

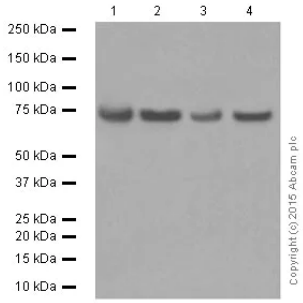
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling FUBP1/FBP with purified ab181111 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

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



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/20000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

Lane 2:
HeLa cell lysate at 20 µg

Lane 3:
Raji cell lysate at 20 µg

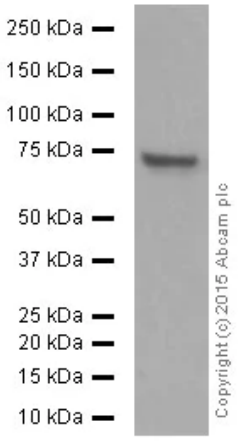
Lane 4:
K562 cell lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/5000 dilution

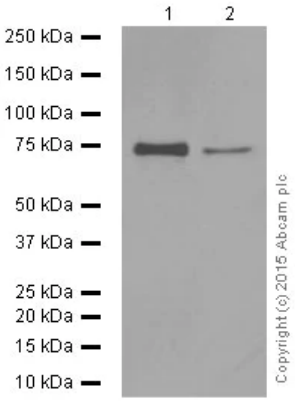
All lanes:
HepG2 cell lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

FUBP1/FBP Western blot staining using rabbit Anti-FUBP1/FBP antibody

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/2000 dilution

Lane 1:
Mouse brain tissue lysate at 20 µg

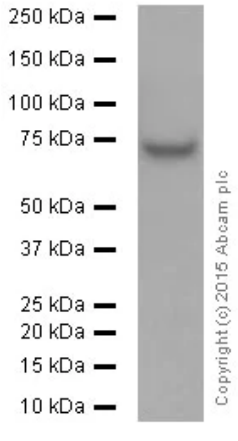
Lane 2:
Mouse spleen tissue lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 132 kDa, 68 kDa

Observed band size: 74 kDa



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/5000 dilution

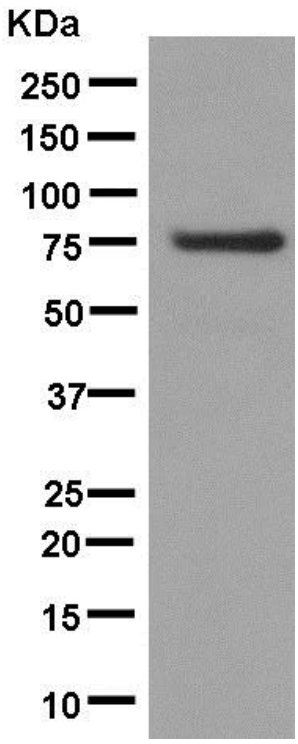
All lanes:
Rat brain tissue lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/5000 dilution

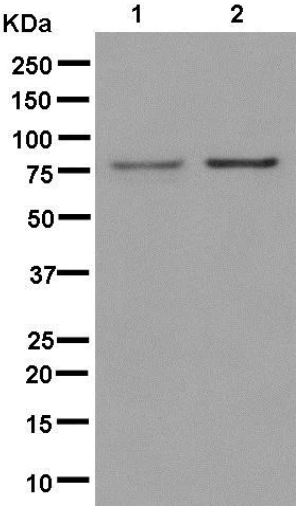
All lanes:
Jurkat cell lysate at 20 µg

Secondary

All lanes:
Goat anti-rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa



Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111)

All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR12327] (ab181111) at 1/20000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
HepG2 cell lysate at 20 µg

Secondary

All lanes:
Goat anti-rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa

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