abcam

ab213525

Anti-FUBP1/FBP antibody [EPR19208]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR19208
Purification technique	Affinity purification Protein A
Concentration	0.581 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/600
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1/16000
Notes	-

Species	Rat
Dilution info	1/16000
Notes	-

Species	Human
Dilution info	1/16000
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

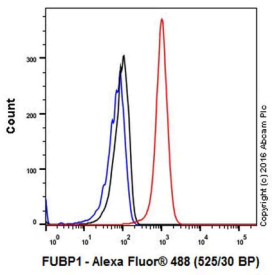
We do not recommend this combination. It is not covered by our product promise.

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.

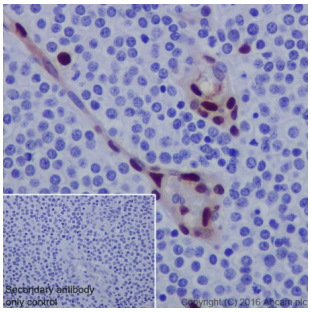
10 product images



Flow Cytometry (Intracellular) - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling FUBP1/FBP with ab213525 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

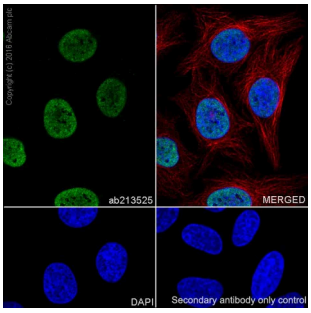


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunohistochemical analysis of paraffin-embedded human oligodendroglioma tissue labeling FUBP1/FBP with ab213525 at 1/16000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining on the vascular endothelium of human oligodendroglioma is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP).

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

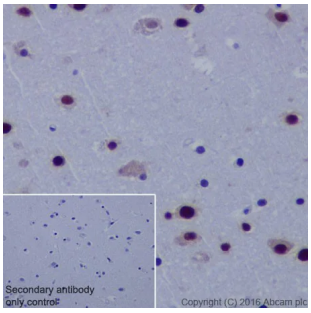


Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunofluorescent analysis of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling FUBP1/FBP with ab213525 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on HeLa cells. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/1000 dilution.

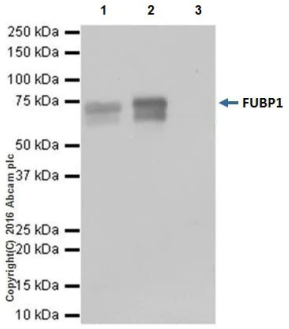


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunohistochemical analysis of paraffin-embedded human cerebral cortex tissue labeling FUBP1/FBP with ab213525 at 1/16000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining on the neurons of human cerebral cortex is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP).

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



Immunoprecipitation - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

FUBP1/FBP was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab213525 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab213525 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution.
Lane 1: HeLa whole cell lysate 10µg (Input).

Lane 2: ab213525 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab213525 in HeLa whole cell lysate.

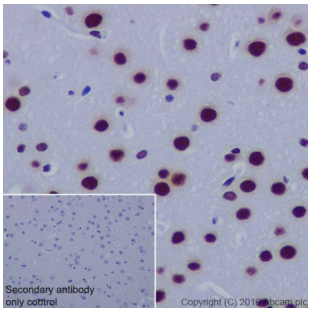
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

The expression pattern observed is consistent with the literature (PMID: 24963357).

All lanes:
Immunoprecipitation - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

Predicted band size: 68 kDa

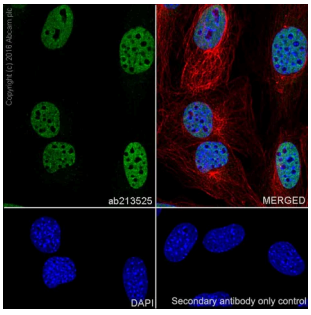


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunohistochemical analysis of paraffin-embedded mouse cerebral cortex tissue labeling FUBP1/FBP with ab213525 at 1/16000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining on the neurons of mouse cerebral cortex is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP).

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

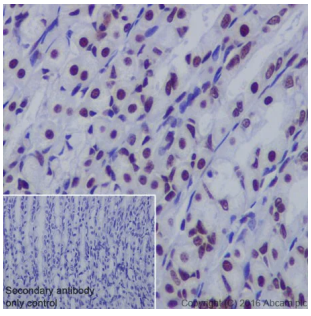


Immunocytochemistry/ Immunofluorescence - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunofluorescent analysis of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling FUBP1/FBP with ab213525 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on NIH/3T3 cells.
The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/1000 dilution.

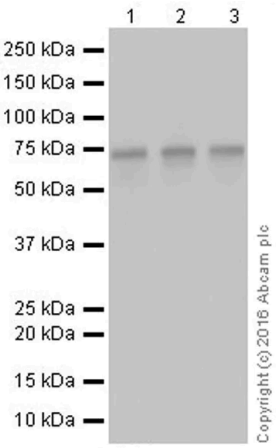


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Immunohistochemical analysis of paraffin-embedded rat stomach tissue labeling FUBP1/FBP with ab213525 at 1/16000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining on the neurons of rat stomach is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP).

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



Western blot - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Blocking/Dilution buffer: 5% NFDM/TBST.
The expression pattern observed is consistent with the literature (PMID: 24963357).

All lanes:
Western blot - Anti-FUBP1/FBP antibody [EPR19208] (ab213525) at 1/5000 dilution

Lane 1:
Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 10 µg

Lane 2:
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 3:
Raji (Human Burkitt's lymphoma cell line) whole cell lysate at 10 µg

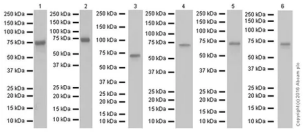
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 68 kDa

Observed band size: 74 kDa

Exposure time: 1s



Western blot - Anti-FUBP1/FBP antibody [EPR19208] (ab213525)

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

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: Lane 1-3/5/6: 1 second; Lane 4: 3 seconds.

The expression pattern observed is consistent with the literature (PMID: 24963357).

Lanes 1 - 2:
Western blot - Anti-FUBP1/FBP antibody [EPR19208] (ab213525) at 1/1000 dilution

Lanes 3 - 6:
Western blot - Anti-FUBP1/FBP antibody [EPR19208] (ab213525) at 1/5000 dilution

Lane 1:
Rat brain lysate at 10 µg

Lane 2:
Mouse brain lysate at 10 µg

Lane 3:
C6 (Rat glial tumor cell line) whole cell lysate at 10 µg

Lane 4:
PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate at 10 µg

Lane 5:
NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate at 10 µg

Lane 6:

RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 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'.