abcam

# ab183045

# Anti-FAF1 antibody [EPR14754]

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 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** | EPR14754 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.027 - 1.127 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

### IP

#### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/40 - 1/60 |
| **Notes** | - |

#### Not recommended

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

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/10000 - 1/50000 |
| **Notes** | - |

### Not recommended

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

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/100 |
| **Notes** | - |

### Not recommended

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

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Not recommended

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

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

### Not recommended

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

# Target data

See full target information FAF1

| | |
|---|---|
| **Function** | Ubiquitin-binding protein (PubMed:19722279). Required for the progression of DNA replication forks by targeting DNA replication licensing factor CDT1 for degradation (PubMed:26842564). Potentiates but cannot initiate FAS-induced apoptosis (By similarity). |

# 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** | FAF1 also known as FAS-associated factor 1 functions mechanically by interacting with the FAS receptor to modulate apoptotic processes. It has a molecular weight of approximately 74 kDa. This protein can be found in various tissues with higher expression in the brain liver and kidney. The expression suggests its diverse roles in cellular processes across different organ systems. |
| **Biological function summary** | FAF1 interacts with ubiquitin-like modifiers to influence the cellular response to stress. It is part of the death-inducing signaling complex (DISC) where it contributes to the regulation of apoptosis. In addition to apoptosis FAF1 plays a role in regulating protein degradation processes connecting its function to proteostasis in cells. |
| **Pathways** | FAF1 takes part in significant cellular processes including the apoptotic signaling pathway and the NF-kB signaling pathway. In these pathways it interacts with FAS and NF-kB proteins contributing to cell death and inflammatory responses |

| | |
|---|---|
| | respectively. The influence on these pathways showcases its role in maintaining balance between cell survival and cell death. |
| **Associated diseases and disorders** | FAF1 displays connections to neurodegenerative diseases and cancers. It has been implicated in the pathogenesis of Parkinson's disease where its dysregulation can affect neuronal survival. Furthermore its interaction with FAS in the apoptosis pathway links FAF1 to certain types of cancers where apoptotic failure results in uncontrolled cell growth. Understanding FAF1's role is essential for developing therapeutic strategies targeting these pathways and associated conditions. |

## 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**

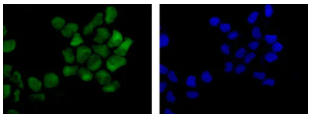
We do not recommend this combination. It is not covered by our product promise.

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.

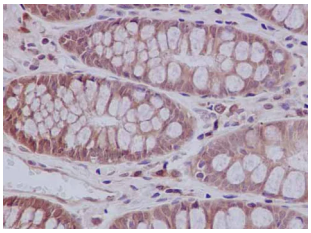
## 5 product images



### Immunocytochemistry/ Immunofluorescence - Anti-FAF1 antibody [EPR14754] (ab183045)

FAF1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-FAF1 antibody

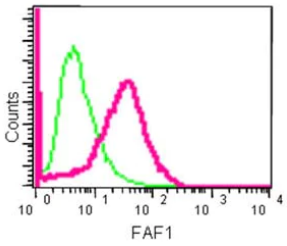
Immunofluorescent analysis of acetone-fixed HeLa cells labeling FAF1 with ab183045 at 1/100 dilution followed by Goat anti rabbit IgG (Alexa Fluor®488) secondary antibody at 1/200 dilution. Counter stained with Dapi (blue).



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAF1 antibody [EPR14754] (ab183045)

FAF1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FAF1 antibody

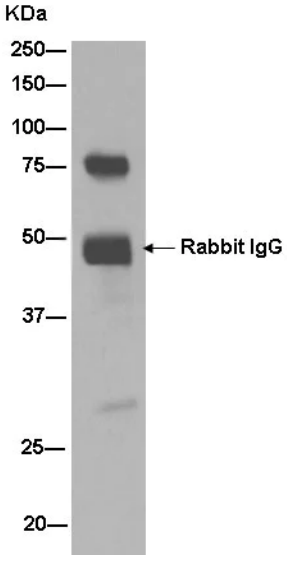
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling FAF1 with ab183045 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.




## Flow Cytometry (Intracellular) - Anti-FAF1 antibody [EPR14754] (ab183045)

FAF1 Flow Cytometry (Intracellular) staining using rabbit Anti-FAF1 antibody

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixedJurkat cells labeling FAF1 with ab183045 at 1/200 dilution (pink) compared to a Rabbit monoclonal IgG isotype control (green) followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/150 diution.

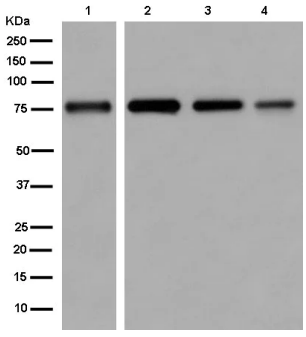



## Immunoprecipitation - Anti-FAF1 antibody [EPR14754] (ab183045)

Western blot analysis of FAF1 in 293 lysate immunoprecipitated with ab183045 at 1/50 dilution.
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody used at 1/1000 dilution.
All lanes:
Immunoprecipitation - Anti-FAF1 antibody [EPR14754] (ab183045)

Predicted band size: 51 kDa, 74 kDa

Observed band size: 66 kDa




## Western blot - Anti-FAF1 antibody [EPR14754] (ab183045)

All lanes:
Western blot - Anti-FAF1 antibody [EPR14754] (ab183045) at 1/50000 dilution

Lane 1:
THP-1 cell lysate at 20 µg

Lane 2:
293 cell lysate at 20 µg

Lane 3:
HeLa cell lysate at 20 µg

Lane 4:
HT29 cell lysate at 20 µg

Secondary

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

Predicted band size: 74 kDa

Observed band size: 74 kDa

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