abcam

**ab186738**

# Anti-NFIB / NF1B2 antibody [EPR14122]

Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) is a rabbit monoclonal antibody detecting NFIB / NF1B2 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

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** | EPR14122 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.862 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

### IHC-P

**Tested**

| | |
|---|---|
| **Species** | Mouse |

| | |
|---|---|
| **Dilution info** | 1/250 - 1/500 |
| **Notes** | Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/250 - 1/500 |
| **Notes** | Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

### Expected

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/30 - 1/50 |
| **Notes** | - |

### Expected

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

## WB

### Tested

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

## ICC/IF

### Tested

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

### Expected

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

## Flow Cyt (Intra)

### Tested

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

### Expected

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

## Target data

See full target information NFIB

| | |
|---|---|
| **Function** | Transcriptional activator of GFAP, essential for proper brain development (PubMed:30388402). Recognizes and binds the palindromic sequence 5'-TTGGCNNNNNGCCAA-3' present in viral and cellular promoters and in the origin of replication of adenovirus type 2. These proteins are individually capable of activating transcription and replication. |

## 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

**What is this antibody validated in?**
Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

**What is the molecular weight of NFIB / NF1B2?**
Anti-NFIB / NF1B2 [EPR14122] (ab186738) specifically detects a band for NFIB / NF1B2 (UniProt: O00712) at a molecular weight of 47kDa.

**Trusted by the scientific community**
Anti-NFIB / NF1B2 [EPR14122] (ab186738) was first used in a scientific publication in 2014 and has been cited over 10 times in peer-reviewed journals.

**Other related products**
We have a range of other formats of antibody clone [EPR14122] also available for your convenience: ab186738, Alexa Fluor® 488 - ab216931, Carrier free - ab250892, PE - ab305979, APC - ab305980, HRP - ab305981, Alkaline Phosphatase - ab308716, Alexa Fluor® 647 - ab310047, Alexa Fluor® 594 - ab310434, Alexa Fluor® 555 - ab311961, Alexa Fluor® 568 - ab312433, Alexa Fluor® 750 - ab321300

**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.

**Trial sizes available!**
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

## 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**

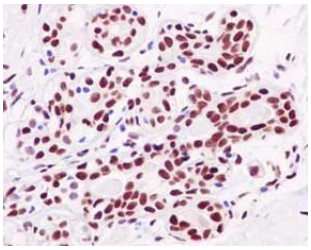
We do not recommend this combination. It is not covered by our product promise.

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.

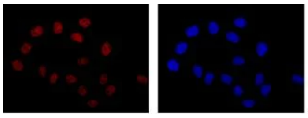
## 9 product images



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-NFIB / NF1B2 antibody

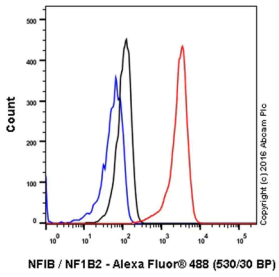
Immunohistochemical analysis of paraffin-embedded Human breast tissue labeling NFIB / NF1B2 with ab186738 at a 1/500 dilution. Counter stained with hematoxylin.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



## Immunocytochemistry/ Immunofluorescence - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-NFIB / NF1B2 antibody

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells labeling NFIB / NF1B2 with ab186738 at a 1/100 dilution. As secondary antibody goat anti-rabbit IgG (Alexa Fluor®555) was used at a 1/200. In blue DAPI staining.

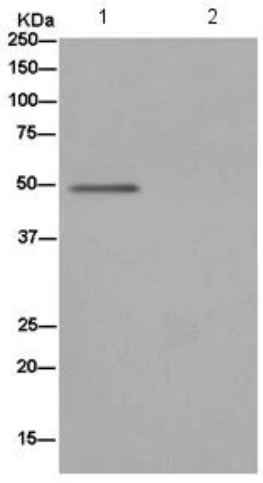



## Flow Cytometry (Intracellular) - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Flow Cytometry (Intracellular) staining using rabbit Anti-NFIB / NF1B2 antibody

ab186738 staining NFIB / NF1B2 in the human cell line HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde, permiabilised with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/70. 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)



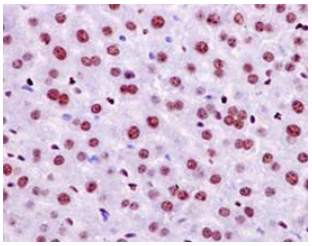

## Immunoprecipitation - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

Western blot analysis on immunoprecipitation from 1) Human fetal brain lysate and 2) PBS, labeling NFIB / NF1B2 using ab186738 at 1/50 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG at a 1/1500 dilution.
All lanes:
Immunoprecipitation - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

Developed using the ECL technique.

Predicted band size: 47 kDa

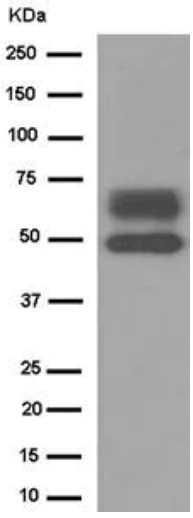
Observed band size: 47 kDa



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-NFIB / NF1B2 antibody

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling NFIB / NF1B2 with ab186738 at a 1/500 dilution. Counter stained with hematoxylin.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.




## Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

All lanes:
Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) at 1/5000 dilution

All lanes:
HeLa cell lysate at 10 µg

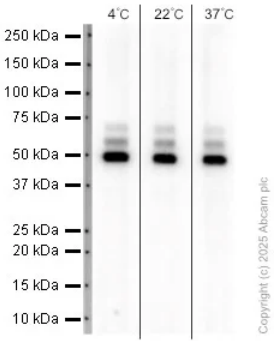
Secondary

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

Developed using the ECL technique.

Predicted band size: 47 kDa

Observed band size: 47 kDa, 53 kDa, 55 kDa




## Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Western blot staining of HeLa whole cell lysate using rabbit Anti-NFIB / NF1B2 antibody

This blot was produced using 4-20% SDS-PAGE containing 15 µg of HeLa whole cell lysate per lane at 150V for 1hr before being transferred onto a 0.45 µm PVDF membrane at 75V for 1hr. The membrane was then blocked for 1hr using 5% NFDM/TBST, then incubated with ab186738 (1/5000) at room temperature for 1hr. After being washed three times in TBST, the membrane was incubated with Peroxidase conjugated goat anti-rabbit IgG (H+L) (ab97051) at 1/20,000 dilution for 1hr at room temperature. The membrane was washed three times again. Then the signal was developed using the ECL technique.

ab186738 was stored at a range of temperatures (+4°C, +22°C, +37°C) for 1 week before being tested in WB. The image shows the band intensity remains relatively constant for temperatures ranging between 4°C, 22°C and 37°C, demonstrating that antibody activity is not affected under these conditions under these conditions. This data was generated as part of a structured antibody stability study supporting Abcam’ s transition from cold⊠chain to ambient shipping.

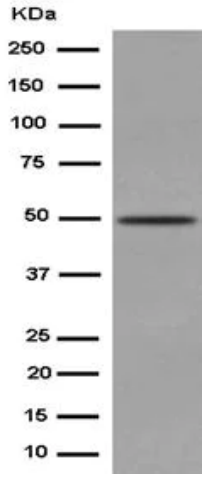
All lanes:
Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) at 1/5000 dilution

All lanes:
HeLa whole cell lysate at 15 µg with NDFM/TBST

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Exposure time: 20s




## Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Western blot staining of Human fetal brain using rabbit Anti-NFIB / NF1B2 antibody

All lanes:
Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) at 1/5000 dilution

All lanes:
Human fetal brain at 20 µg

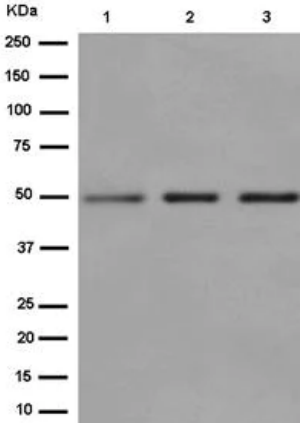
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab136636) at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 47 kDa

Observed band size: 47 kDa




## Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738)

NFIB / NF1B2 Western blot staining using rabbit Anti-NFIB / NF1B2 antibody

All lanes:
Western blot - Anti-NFIB / NF1B2 antibody [EPR14122] (ab186738) at 1/1000 dilution

Lane 1:
C6 cell lysate at 10 µg

Lane 2:
PC-12 cell lysate at 10 µg

Lane 3:
NIH/3T3 cell lysate at 10 µg

Secondary

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

Developed using the ECL technique.

Predicted band size: 47 kDa

Observed band size: 47 kDa

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