abcam

ab250167

# Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free

Recombinant | RabMAb | KO Validated

## 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** | EPR12355(B) |
| **Purification technique** | Affinity purification |
| **Concentration** | 0.927 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

### IHC-P

**Tested**

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

| | |
|---|---|
| **Notes** | Use of a HRP/AP polymerized secondary antibody is recommended. |

### Predicted

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

## IP

### Not recommended

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

## WB

### Tested

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

### Predicted

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

## ICC/IF

### Not recommended

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

## Flow Cyt (Intra)

### Tested

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

### Predicted

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

## Target data

See full target information GOT2

| | |
|---|---|
| **Function** | Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). As a member of the malate-aspartate shuttle, it has a key role in the intracellular NAD(H) redox balance. Is important for metabolite exchange between mitochondria and cytosol, and for amino acid metabolism. Facilitates cellular uptake of long-chain free fatty acids. |

## 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

ab250167 is the carrier-free version of ab180162.

**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.

## 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**

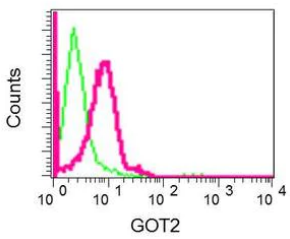
We do not recommend this combination. It is not covered by our product promise.

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.

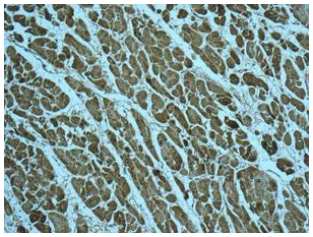
## 5 product images




### Flow Cytometry (Intracellular) - Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free (ab250167)

FABP-1 Flow Cytometry (Intracellular) staining using rabbit Anti-FABP-1 antibody

This data was developed using ab180162, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized HeLa cells labeling FABP-1 using ab180162 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).

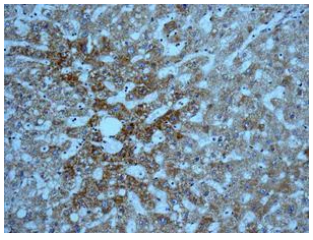


### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free (ab250167)

FABP-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FABP-1 antibody

This data was developed using ab180162, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human heart tissue labeling FABP-1 using ab180162 at a 1/250 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

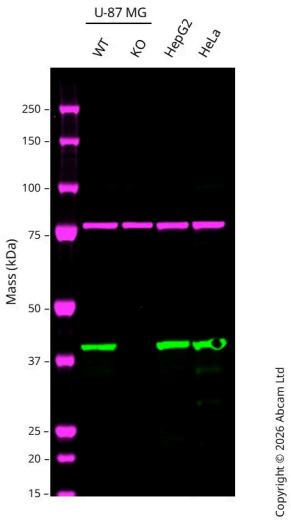


### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free (ab250167)

FABP-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FABP-1 antibody

This data was developed using ab180162, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling FABP-1 using ab180162 at a 1/250 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.




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# Western blot - Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free (ab250167)

FABP-1 Western blot staining using rabbit Anti-FABP-1 antibody

This data was developed using ab180162, the same antibody clone in a different buffer formulation.

Western blot: Anti-FABP-1 antibody [EPR12355(B)] ab180162 staining at 1/5000 dilution, shown in green; Mouse anti-CANX ab238078 loading control staining at 1/20000 dilution, shown in magenta. A band was observed at 40 kDa in Wild-type U-87 MG cell line with no signal observed at this size in GOT2 knockout U-87 MG cell line. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% Milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit 800CW and Goat anti-Mouse 680RD at 1/20,000 dilution.
All lanes:
Western blot - Anti-FABP-1 antibody [EPR12355(B)] (ab180162) at 1/5000 dilution

Lane 1:
Wild-type U-87 MG cell lysates at 20 µg

Lane 2:
GOT2 knockout U-87 MG cell lysates at 20 µg

Lane 3:
HepG2 cell lysates at 20 µg

Lane 4:
HeLa cell lysates at 20 µg

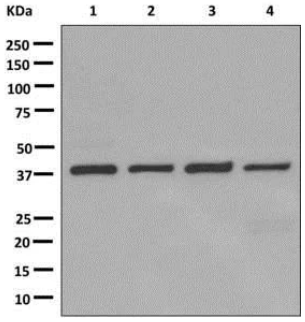
Secondary

All lanes:
Goat anti-Rabbit 800CW & Goat anti-Mouse 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 48 kDa

Observed band size: 40 kDa




# Western blot - Anti-FABP-1 antibody [EPR12355(B)] - BSA and Azide free (ab250167)

FABP-1 Western blot staining using rabbit Anti-FABP-1 antibody

This data was developed using ab180162, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-FABP-1 antibody [EPR12355(B)] (ab180162) at 1/5000 dilution

Lane 1:
Fetal liver tissue lysate at 10 µg

Lane 2:
293T cell lysate at 10 µg

Lane 3:

HepG2 cell lysate at 10 µg

Lane 4:
HeLa cell lysate at 10 µg

Developed using the ECL technique.

Predicted band size: 48 kDa

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