abcam

ab190688

# Anti-FBXO40 antibody [EPR15005]

Recombinant | RabMAb

## 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** | EPR15005 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.417 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## WB

### Tested

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

### Predicted

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

## Flow Cyt (Intra)

### Tested

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

### Predicted

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

## Target data

See full target information FBXO40

| | |
|---|---|
| **Function** | Probable substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex that may function in myogenesis. |

## 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** | FBXO40 also known as F-box only protein 40 is a member of the F-box protein family which is characterized by containing an approximately 40 amino acid motif known as the F-box. It has a mass of around 48 kDa. Mechanically FBXO40 functions as part of the SCF (SKP1-CUL1-F-box protein) ubiquitin ligase complex targeting specific proteins for ubiquitination and subsequent proteasomal degradation. This protein embeds itself within skeletal muscle tissue where its expression plays an essential role. |
| **Biological function summary** | FBXO40 regulates muscle protein turnover and influences muscle mass maintenance. As part of a ubiquitin ligase complex FBXO40 participates actively in marking proteins for degradation which is essential for cellular homeostasis. The regulation of signaling molecules involved in muscle physiology makes FBXO40 an important player in maintaining muscle integrity and function. The activity of FBXO40 can indirectly affect muscle growth and the adaptation of muscle tissue to various physiological conditions. |
| **Pathways** | FBXO40 engages in the ubiquitin-proteasome system which is critical for protein quality control and cellular regulation. It works alongside other proteins like SKP1 in the SCF complex which targets specific proteins for degradation ensuring proper protein balance within the cell. The interaction with pathways involving skeletal muscle differentiation and remodeling highlights its role in the precise regulation of cellular signaling mechanisms important for muscle development and function. |
| **Associated diseases and disorders** | Research indicates that FBXO40 may associate with muscular dystrophies characterised by the progressive weakening of muscle mass. It is particularly |

implicated in the pathology of conditions that affect muscle protein breakdown and synthesis. FBXO40 has also been connected with proteins such as myostatin which inhibit muscle growth suggesting a potential link between disrupted FBXO40 function and muscle-related disorders. The understanding of FBXO40's role could contribute to the development of therapeutic strategies addressing genetic muscle diseases.

## 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**

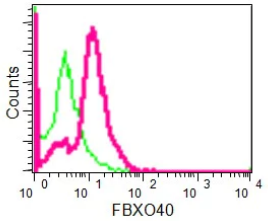
We do not recommend this combination. It is not covered by our product promise.

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.

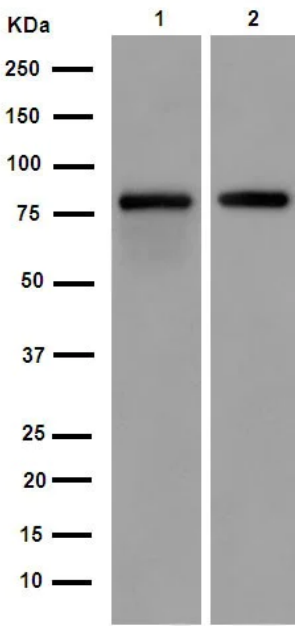
## 3 product images




### Flow Cytometry (Intracellular) - Anti-FBXO40 antibody [EPR15005] (ab190688)

FBXO40 Flow Cytometry (Intracellular) staining using rabbit Anti-FBXO40 antibody

Intracellular flow cytometric analysis of2% paraformaldehyde fixed HeLa cells labeling FBXO40 with ab190688 at 1/90 followed byGoat anti rabbit IgG (FITC) at 1/150 (red).Rabbit monoclonal IgG was used as isotype control (green).




## Western blot - Anti-FBXO40 antibody [EPR15005] (ab190688)

All lanes:
Western blot - Anti-FBXO40 antibody [EPR15005] (ab190688) at 1/1000 dilution

Lane 1:
Human fetal heart tissue lysate at 20 µg

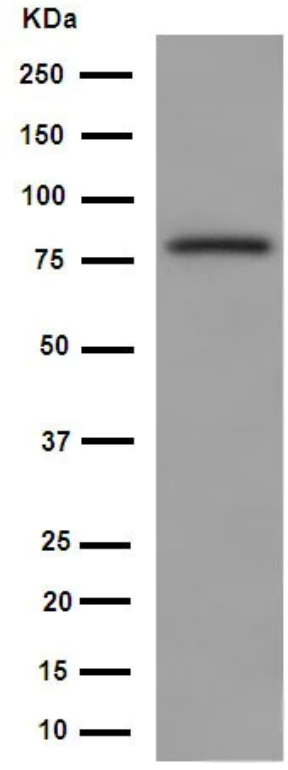
Lane 2:
Human skeletal muscle lysate at 20 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 80 kDa

Observed band size: 80 kDa




## Western blot - Anti-FBXO40 antibody [EPR15005] (ab190688)

All lanes:
Western blot - Anti-FBXO40 antibody [EPR15005] (ab190688) at 1/10000 dilution

All lanes:
Human fetal heart lysate at 20 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 80 kDa

Observed band size: 80 kDa

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