

## Product datasheet

# Anti-BIN1 antibody [EPR13463-25] ab185950

**KO** **評価済** **リコンビナント** **RabMAb**

★★★★☆ 3 Abreviews 3 References 画像数 8

### 製品の概要

<b>製品名</b>	Anti-BIN1 antibody [EPR13463-25]
<b>製品の詳細</b>	Rabbit monoclonal [EPR13463-25] to BIN1
<b>由来種</b>	Rabbit
<b>アプリケーション</b>	<b>適用あり:</b> ICC/IF, WB, IHC-P, Flow Cyt (Intra)
<b>種交差性</b>	<b>交差種:</b> Mouse, Human <b>交差が予測される動物種:</b> Rat
<b>免疫原</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>ポジティブ・コントロール</b>	U87-MG, Human fetal kidney and HeLa whole cell lysate ( <a href="#">ab150035</a> ); Human fetal brain lysate;, Human skeletal muscle and mouse brain tissues; HeLa and U87-MG cells.
<b>特記事項</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>バッファー</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>精製度</b>	Protein A purified
<b>ポリ/モノ</b>	モノクローナル
<b>クローン名</b>	EPR13463-25

## アプリケーション

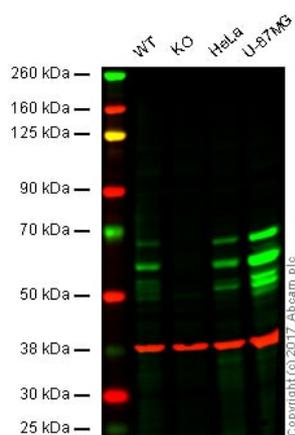
**The Abpromise guarantee** [Abpromise保証は](#)、次のテスト済みアプリケーションにおけるab185950の使用に適用されず  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/100.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 56, 65, 70, 90 kDa (predicted molecular weight: 65 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/90. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

## ターゲット情報

機能	May be involved in regulation of synaptic vesicle endocytosis. May act as a tumor suppressor and inhibits malignant cell transformation.
組織特異性	Ubiquitous. Highest expression in the brain and muscle. Isoform IIA is expressed only in the brain where it is concentrated in axon initial segments and nodes of Ranvier. Isoform BIN1 is widely expressed with highest expression in skeletal muscle.
関連疾患	Defects in BIN1 are the cause of centronuclear myopathy autosomal recessive (ARCNM) [MIM:255200]; also known as autosomal recessive myotubular myopathy. Centronuclear myopathies are congenital muscle disorders characterized by progressive muscular weakness and wasting involving mainly limb girdle, trunk, and neck muscles. It may also affect distal muscles. Weakness may be present during childhood or adolescence or may not become evident until the third decade of life. Ptosis is a frequent clinical feature. The most prominent histopathologic features include high frequency of centrally located nuclei in muscle fibers not secondary to regeneration, radial arrangement of sarcoplasmic strands around the central nuclei, and predominance and hypotrophy of type 1 fibers.
配列類似性	Contains 1 BAR domain. Contains 1 SH3 domain.
翻訳後修飾	Phosphorylated by protein kinase C.
細胞内局在	Cytoplasm and Nucleus.

## 画像



Western blot - Anti-BIN1 antibody [EPR13463-25] (ab185950)

**Lane 1:** Wild type HAP1 whole cell lysate (20 µg)

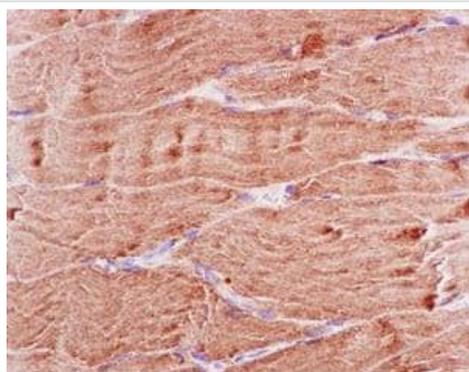
**Lane 2:** BIN1 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HeLa whole cell lysate (20 µg)

**Lane 4:** U-87MG whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab185950 observed at 45-65 kDa. Red - loading control, ab8245, observed at 37 kDa.

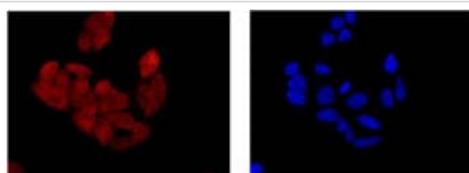
ab185950 was shown to specifically react with BIN1 when BIN1 knockout samples were used. Wild-type and BIN1 knockout samples were subjected to SDS-PAGE. Ab185950 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BIN1 antibody [EPR13463-25] (ab185950)

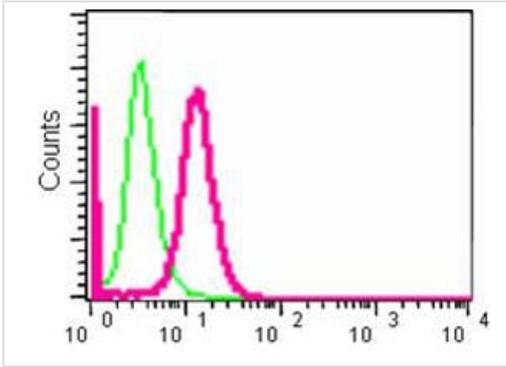
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling BIN1 with ab185950 at 1/100 dilution. Secondary ab: Ready to use HRP Polymer for Rabbit IgG. Counter stain: Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



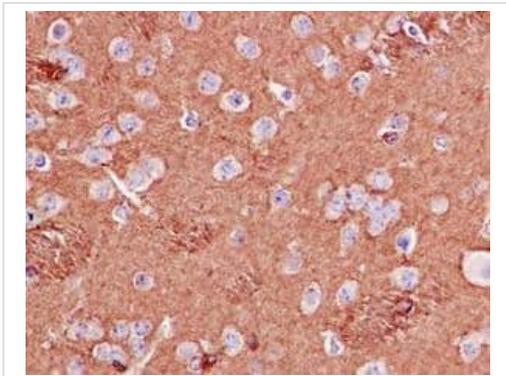
Immunocytochemistry/ Immunofluorescence - Anti-BIN1 antibody [EPR13463-25] (ab185950)

Immunofluorescent analysis of HeLa cells labeling BIN1 with ab185950 at 1/100 dilution. Secondary ab: Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Fixative: -20 min Acetone. Counter stain: Dapi (blue).



Flow Cytometry (Intracellular) - Anti-BIN1 antibody [EPR13463-25] (ab185950)

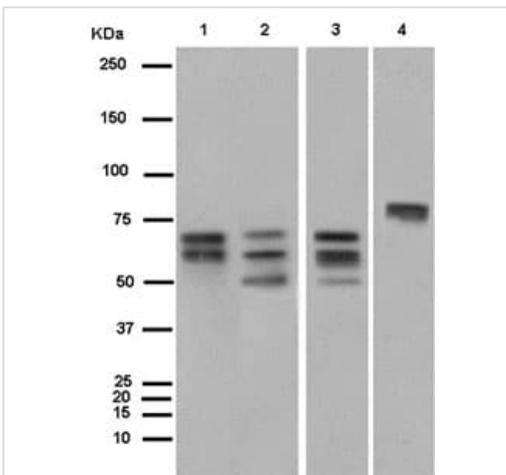
Intracellular flow cytometric analysis of HeLa cells labeling BIN1 using ab185950 at 1/90 dilution (red). Secondary ab: Goat anti rabbit IgG (FITC) at 1/150 dilution. Fixative: 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BIN1 antibody [EPR13463-25] (ab185950)

Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labeling BIN1 with ab185950 at 1/100 dilution. Secondary ab: Ready to use HRP Polymer for Rabbit IgG. Counter stain: Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-BIN1 antibody [EPR13463-25] (ab185950)

**All lanes** : Anti-BIN1 antibody [EPR13463-25] (ab185950) at 1/1000 dilution

**Lane 1** : U87-MG cell lysate

**Lane 2** : Human fetal kidney lysate

**Lane 3** : Hela cell lysate

**Lane 4** : Human fetal brain lysate

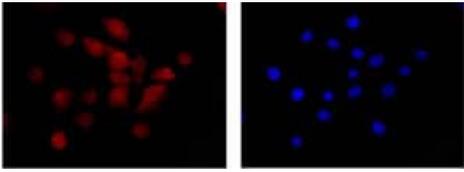
Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 65 kDa

Blocking buffer: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-BIN1 antibody [EPR13463-25] (ab185950)

Immunofluorescent analysis of U87-MG cells labeling BIN1 with ab185950 at 1/100 dilution. Secondary ab: Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Fixative: 4% paraformaldehyde. Counter stain: Dapi (blue)

#### Why choose a recombinant antibody?



Anti-BIN1 antibody [EPR13463-25] (ab185950)

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