

Product datasheet

Anti-Munc18-1 antibody ab3451

★★★★★ [2 Abreviews](#) [13 References](#) [画像数 5](#)

製品の概要

製品名	Anti-Munc18-1 antibody
製品の詳細	Rabbit polyclonal to Munc18-1
由来種	Rabbit
アプリケーション	適用あり: WB, ICC
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Chicken, Cow, Pig 
免疫原	Synthetic peptide corresponding to Human Munc18-1 aa 58-70. Sequence: VEDINKRREPIPS (Peptide available as ab4982) Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: Mouse and rat brain tissue lysates ICC: U-87 MG cells
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル

アプリケーション

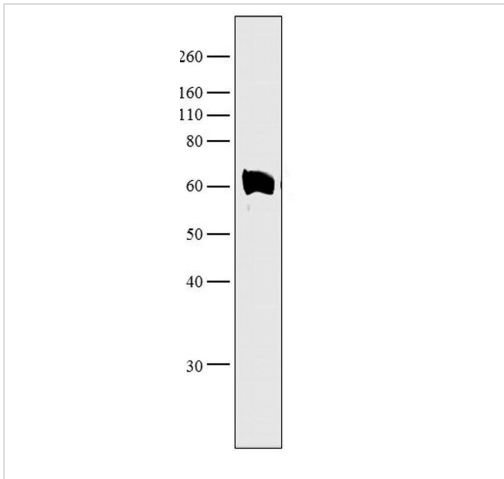
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab3451の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 67 kDa. By Western blot, this antibody detects an ~67 kDa protein representing Munc-18 from rat whole brain extract.
ICC		Use a concentration of 2 µg/ml.

ターゲット情報

機能	May participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions.
組織特異性	Brain and spinal cord. Highly enriched in axons.
関連疾患	Defects in STXBP1 are the cause of epileptic encephalopathy early infantile type 4 (EIEE4) [MIM:612164]. Affected individuals have neonatal or infantile onset of seizures, suppression-burst pattern on EEG, profound mental retardation, and MRI evidence of hypomyelination.
配列類似性	Belongs to the STXBP/unc-18/SEC1 family.
細胞内局在	Cytoplasm. Membrane.

画像



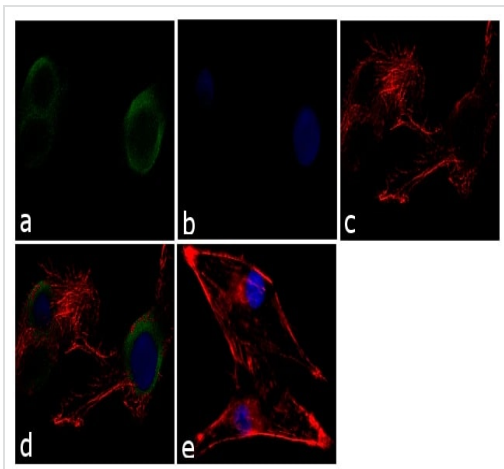
Western blot - Anti-Munc18-1 antibody (ab3451)

Anti-Munc18-1 antibody (ab3451) at 2 µg/ml + Mouse brain tissue lysate at 30 µg

Secondary

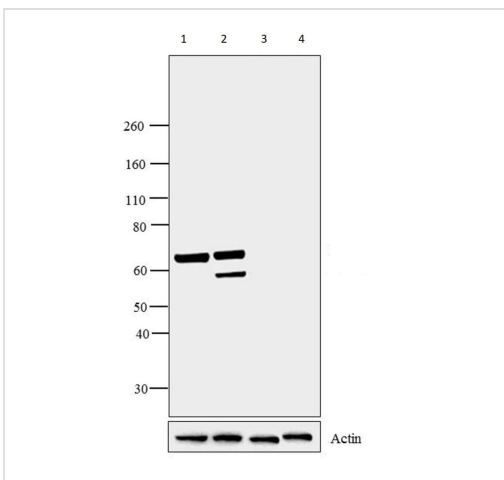
Goat anti-Rabbit IgG (H+L) Superclonal™ at 1/4000 dilution

Observed band size: 67 kDa



Immunocytochemistry - Anti-Munc18-1 antibody (ab3451)

Immunocytochemistry analysis of 70% confluent log phase U-87 MG cells labeling Munc18-1 with ab3451 at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature followed by Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate at a dilution of 1/2000 for 45 minutes at room temperature (Panel a: green). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin. Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



Western blot - Anti-Munc18-1 antibody (ab3451)

All lanes : Anti-Munc18-1 antibody (ab3451) at 2 µg/ml

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lane 3 : Rat liver tissue lysate

Lane 4 : Rat kidney tissue lysate

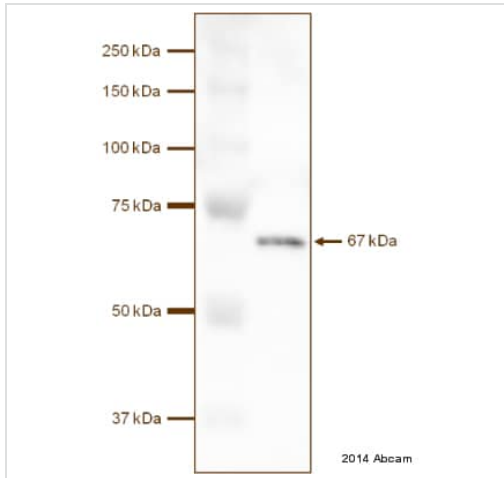
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ at 1/4000 dilution

Observed band size: 67 kDa

Detected by chemiluminescence



Western blot - Anti-Munc18-1 antibody (ab3451)
This image is courtesy of an anonymous Abreview

Anti-Munc18-1 antibody (ab3451) at 1/5000 dilution + Mouse hippocampal homogenate at 5 µg

Secondary

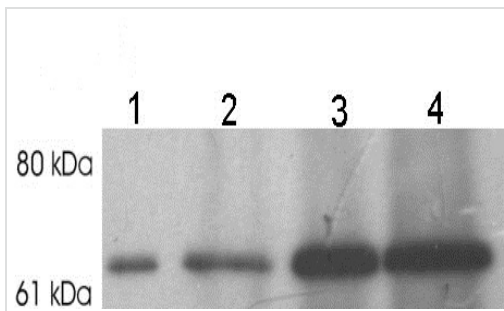
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97069](#)) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 67 kDa

Exposure time: 1 minute



Western blot - Anti-Munc18-1 antibody (ab3451)

Western blot of Munc-18 in rat brain homogenate immunoprecipitated with ab3451.

1. Extract only.

2-4. 750 µg of extract immunoprecipitated with 1 µg, 5 µg, and 10 µg of ab3451, respectively.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors