

Anti-Munc18-1 antibody ab3451

★★★★★ [2 Abreviews](#) [13 References](#) [5 图像](#)

概述

产品名称	Anti-Munc18-1抗体
描述	兔多克隆抗体to Munc18-1
宿主	Rabbit
经测试应用	适用于: WB, ICC
种属反应性	与反应: Mouse, Rat, Human 预测可用于: 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
阳性对照	WB: Mouse and rat brain tissue lysates ICC: U-87 MG cells
常规说明	<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>

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Immunogen affinity purified
克隆	多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab3451于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能

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.

组织特异性

Brain and spinal cord. Highly enriched in axons.

疾病相关

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.

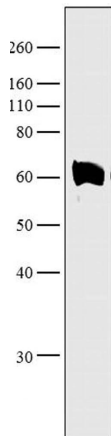
序列相似性

Belongs to the STXBP/unc-18/SEC1 family.

细胞定位

Cytoplasm. Membrane.

图片



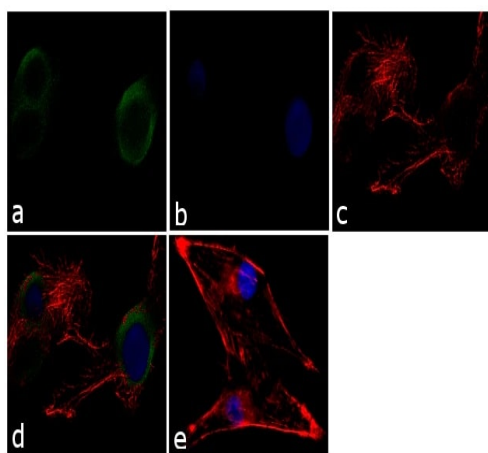
Western blot - Anti-Munc18-1 antibody (ab3451)

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

Secondary

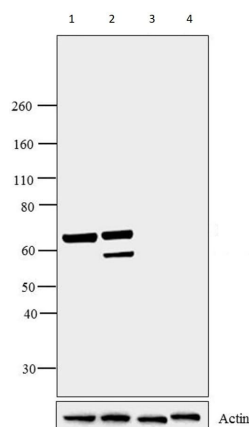
Goat anti-Rabbit IgG (H+L) Superclonal™ at 1/4000 dilution

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

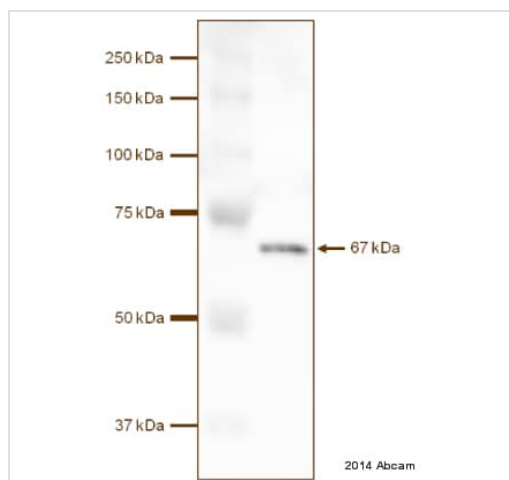
Lysates/proteins at 30 µg per lane.

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

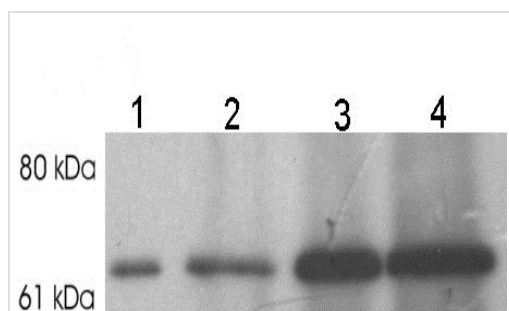
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97069](#)) at 1/10000 dilution

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.

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