


Product datasheet

Anti-Munc18-1 antibody ab155020

3 Images

Overview

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<b>Product name</b>	Anti-Munc18-1 antibody
<b>Description</b>	Rabbit polyclonal to Munc18-1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Chicken, Cow, Xenopus laevis 
<b>Immunogen</b>	Recombinant fragment corresponding to a region within amino acids 354-574 of Human Munc18.
<b>Positive control</b>	293T, A431, Jurkat, Raji and mouse brain lysates; A431 cells.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

Properties

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<b>Form</b>	Liquid
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<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab155020** in the following tested applications.

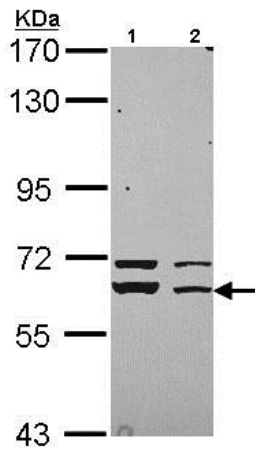
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 68 kDa.
ICC/IF		1/100 - 1/1000.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Brain and spinal cord. Highly enriched in axons.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the STXBP/unc-18/SEC1 family.
<b>Cellular localization</b>	Cytoplasm. Membrane.

## Images



Western blot - Anti-Munc18-1 antibody (ab155020)

**All lanes :** Anti-Munc18-1 antibody (ab155020) at 1/3000 dilution

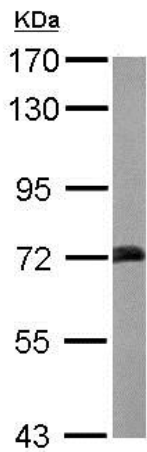
**Lane 1 :** 293T whole cell lysate

**Lane 2 :** A431 whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 68 kDa

7.5% SDS PAGE

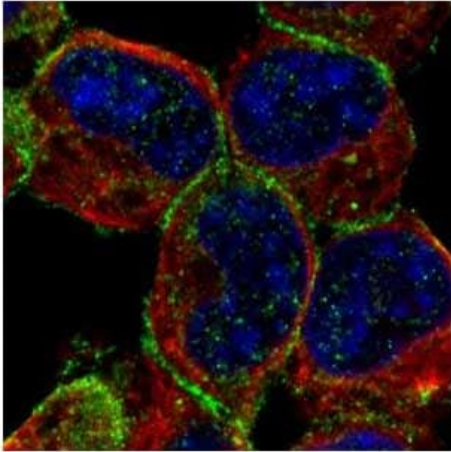


Western blot - Anti-Munc18-1 antibody (ab155020)

Anti-Munc18-1 antibody (ab155020) at 1/10000 dilution + mouse brain whole cell lysate at 20 µg

**Predicted band size:** 68 kDa

7.5% SDS PAGE



Confocal immunofluorescent analysis of methanol-fixed A431 cells labeling Munc18 with ab155020 at 1/500 dilution (green). Alpha-tubulin filaments were labeled with an Alpha-tubulin antibody at 1/2000 dilution (red).

Immunocytochemistry/ Immunofluorescence - Anti-Munc18-1 antibody (ab155020)

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

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