abcam

Product datasheet

Anti-Munc13-1 antibody - C-terminal ab215426

[1 Image]

Overview

Product name	Anti-Munc13-1 antibody - C-terminal
Description	Sheep polyclonal to Munc13-1 - C-terminal
Host species	Sheep
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse
	Predicted to work with: Rat, Human
Immunogen	Recombinant fragment corresponding to Human Munc13-1 aa 1500-1700 (C terminal). (Derived from E.coli). Database link: **Q9UPW8**
	Run BLAST with **Run BLAST with**
Positive control	Mouse embryonic tissue lysate.
General notes	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.
	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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituent: 100% PBS
Purity	Immunogen affinity purified
Purification notes	The IgG fraction of immunized serum was purified by antigen affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our **Abpromise guarantee** covers the use of ab215426 in the following tested applications.

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

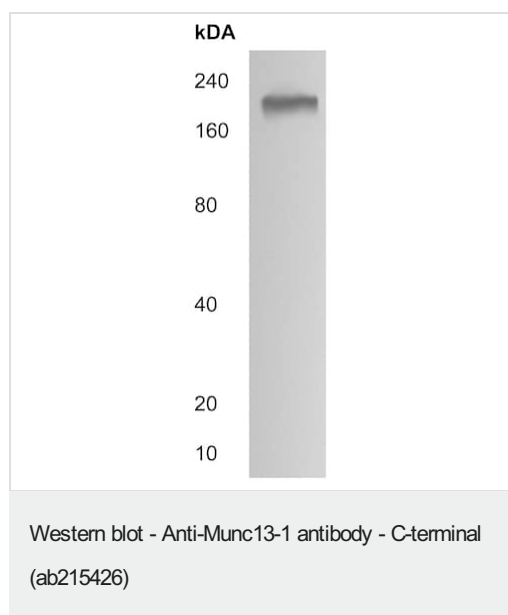| Application	Abreviews	Notes
WB		1/1000 - 1/2000. Detects a band of approximately 190-210 kDa (predicted molecular weight: 193 kDa).

Target

Relevance

Function: Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). Essential for synaptic vesicle maturation in most excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity). Also involved in secretory granule priming in insulin secretion (By similarity). Interacts with FBXO45 (via SRY domain); leading to the degradation of UNC13A by the proteasome (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003). Tissue specificity: Expressed in pancreatic islet cells (PubMed:12871971). Expressed in melanocytes (PubMed:23999003). Similarity: Belongs to the unc-13 family. Contains 3 C2 domains. Contains 1 MHD1 (MUNC13 homology domain 1) domain. Contains 1 MHD2 (MUNC13 homology domain 2) domain. Contains 1 phorbol-ester/DAG-type zinc finger. Domain: The C2 domains are not involved in calcium-dependent phospholipid binding. The C-terminal region containing both MHD domains and the third C2 domain is required for synaptic vesicle priming activity.

Cellular localization

Cytoplasm. Cell membrane; Peripheral membrane protein. Cell junction; synapse, presynaptic cell membrane. Note: Localized to the active zone of presynaptic density. Translocated to the plasma membrane as response to phorbol ester binding

Images

Anti-Munc13-1 antibody - C-terminal (ab215426) at 1/1000 dilution

+ Mouse embryonic tissue lysate

Predicted band size: 193 kDa
Observed band size: 190-210 kDa

Western blot - Anti-Munc13-1 antibody - C-terminal
(ab215426)

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- Replacement or refund for products not performing as stated on the datasheet
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- 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.com/abpromise** or contact our technical team.

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