

Datasheet: AHP1234

BATCH NUMBER 161206

Description:	RABBIT ANTI MUNC-18 (pSer515)
Specificity:	MUNC-18 (pSer515)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Rat

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Dog, Xenopus, Human, Bovine, Chicken, Mouse, Primate

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to rat Munc-18 (pSer515) were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	10mM Hepes pH7.5
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 50% Glycerol 0.01% Bovine Serum Albumin
Immunogen	Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated Ser515 of Munc-18.
External Database Links	UniProt: P61765 Related reagents Entrez Gene: 25558 Stxbp1 Related reagents
Synonyms	Unc18a
RRID	AB_877490
Specificity	Rabbit anti Rat MUNC-18 (pSer515) antibody recognizes MUNC-18, also known as syntaxin-binding protein 1, N-Sec1, protein unc-18 homolog 1 (Unc18-1) and p67, when phosphorylated at serine 515. MUNC-18 is a ~67 kDa member of the STXBP/UNC-18/SEC1 family. It is neural specific, expressed in the brain, spinal cord and at very high levels in axons. Munc-18 is crucial to calcium-dependent neurotransmitter release, facilitating synaptic vesicle docking and fusion. It inhibits the formation of soluble N-ethylmaleimide-sensitive fusion protein attachment protein receptor (SNARE) complex by binding syntaxin 1 preventing the other components (synaptobrevin and synaptosomal associated protein of 25 kDa (SNAP-25)) from binding. The function of Munc-18 is regulated by the phosphorylation of serine 515 by protein kinase C. Munc-18 is also involved in the onset of female puberty through its regulation of glutamate release (Kim <i>et al.</i> 2006).
Western Blotting	AHP1234 detects a band/s of approximately 65kDa in rat cortex cell lysates
References	1. Pevsner, J. <i>et al.</i> (1994) n-Sec1: a neural-specific syntaxin-binding protein. Proc Natl Acad Sci U S A. 91 (4): 1445-9. 2. Yerrapureddy, A. <i>et al.</i> (2005) Intracellular interaction between syntaxin and Munc 18-1 revealed by fluorescence resonance energy transfer. Mol Membr Biol. 22 (5): 401-10.
Further Reading	1. Toonen, R.F. <i>et al.</i> (2006) Munc18-1 expression levels control synapse recovery by regulating readily releasable pool size. Proc Natl Acad Sci U S A. 103 (48): 18332-7.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/AHP1234 10088
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M363863:200529'

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