prosci-inc.com

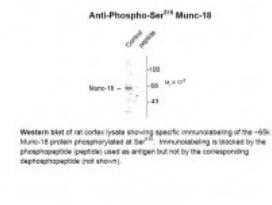
ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

Munc-18 (phospho Ser515) Antibody

CATALOG NUMBER: 50-230



Western blot of rat cortex lysate showing specific immunolabeling of the ~65k Munc-18 protein phosphorylated at Ser515. Immunolabeling is blocked by the phosphopeptide (peptide) used as antigen but not by the corresponding dephosphopeptide (not shown).

Specifications

SPECIES REACTIVITY:	Bovine, Chicken, Dog, Human, Mouse, Rat, Xenopus
TESTED APPLICATIONS:	IHC, WB
APPLICATIONS:	The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with bovine, canine, chicken, human, mouse, non-human primates and Xenopus based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	65
IMMUNOGEN:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser515 of Munc-18.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Affinity Purified
PHYSICAL STATE:	Liquid
BUFFER:	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
STORAGE CONDITIONS:	Munc-18 antibody can be stored at -20˚C and is stable at -20˚C for at least 1 year.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Munc18b, Unc18b, Protein unc-18 homolog 2, Munc18-2
ACCESSION NO.:	Q62753
PROTEIN GI NO.:	2501516

OFFICIAL SYMBOL:	Stxbp2
GENE ID:	81804

Background

BACKGROUND:	Munc-18 (mammalian homologue of Unc-18) is a protein that is thought to be involved in regulating exocytosis due, at least in part, to it ability to bind syntaxin (Ciufo et al., 2005). Munc18-1 is a neuron-specific member of the Sec1/Munc18 protein family that binds to syntaxin1A and is thought to stabilize the complex (Liu et al., 2004). The function of Munc-18 is thought to be regulated by PKC phosphorylation of Ser515 on the Munc-18 protein (Sassa et al., 1996).
REFERENCES:	1) Ciufo LF, Barclay JW, Burgoyne RD, Morgan A (2005) Munc18-1 regulates early and late stages of exocytosis via syntaxin-independent protein interactions. Mol Biol Cell 16:470-482.
	2) Liu J, Ernst SA, Gladycheva SE, Lee YY, Lentz SI, Ho CS, Li Q, Stuenkel EL (2004) Fluorescence resonance energy transfer reports properties of syntaxin1a interaction with Munc18-1 in vivo. J Biol Chem 279:55924-55936.
	3) Sassa T, Ogawa H, Kimoto M, Hosono R (1996) The synaptic protein UNC-18 is phosphorylated by protein kinase C. Neurochem Int 29:543-552.

FOR RESEARCH USE ONLY

December 13, 2016