

Anti-Phospho-Munc-18 (Ser513) STXBP2 Antibody

Catalog Number: P04909

About STXBP2

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 its 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 Unc-18 is thought to be regulated by PKC phosphorylation of Ser-515 in *C. Elegans* (Sassa et al., 1996). Ser-513 is the mammalian homologue of Ser-515 in *C. Elegans*.

Overview

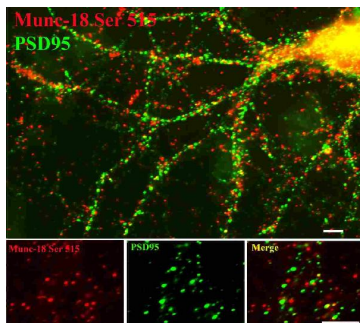
Product Name	Anti-Phospho-Munc-18 (Ser513) STXBP2 Antibody
Reactive Species	Rat
Description	Boster Bio Anti-Phospho-Munc-18 (Ser513) STXBP2 Antibody (Catalog # P04909). Tested in WB, ICC applications. This antibody reacts with Rat.
Application	ICC, WB
Clonality	Polyclonal 1B9
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q62753

Technical Details

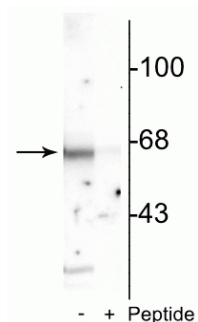
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser513 of rat Munc-18, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Human, Mouse, Primate, Xenopus
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on

	phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p> <p>ICC: 1:400</p>

Anti-Phospho-Munc-18 (Ser513) STXBP2 Antibody (P04909) Images



Immunostaining of 14 DIV rat cortical neurons showing specific labeling of Munc-18 phosphorylated at Ser⁵¹³ (red) and PSD95 (green).



Western blot of rat cortical lysate showing specific immunolabeling of the ~65 kDa Munc-18 protein phosphorylated at Ser⁵¹³ in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as the antigen, but not by the corresponding non-phosphopeptide (not shown).

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