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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Phospho-Synaptotagmin (Ser309) Syt1 Antibody

Catalog Number: P02314-1

About SYT1

Synaptotagmin is widely regarded as the primary calcium sensor for synaptic vesicle exocytosis (Fernandez-Chacon et al., 2001; Wang et al., 2003). Moreover, recent studies indicate that the protein also plays a key role in endocytosis (Poskanzer et al., 2003). Synaptotagmin can be phosphorylated by multiple protein kinases and this may play a key role in modulation of synaptotagmin's ability to influence both the exocytotic and endocytotic components of synaptic transmission (Hilfiker et al., 1999; Lee et al., 2004).

Overview

Product Name	Anti-Phospho-Synaptotagmin (Ser309) Syt1 Antibody
Reactive Species	Rat
Description	Boster Bio Anti-Phospho-Synaptotagmin (Ser309) Syt1 Antibody (Catalog # P02314-1). Tested in WB, ICC applications. This antibody reacts with Rat.
Application	ICC, WB
Clonality	Polyclonal 608
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	P21707

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser309 of rat synaptotagmin, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Human, Mouse, Primate, Zebrafish
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

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

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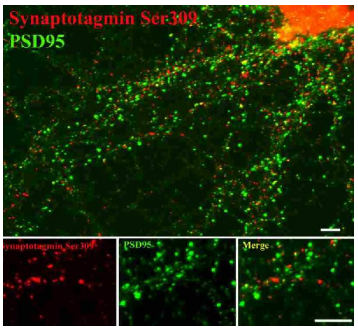
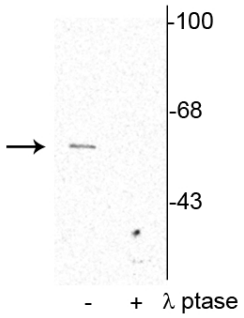
Anti-Phospho-Synaptotagmin (Ser309) Syt1 Antibody (P02314-1) Images



Immunostaining of 14 DIV rat cortical neurons showing synaptotagmin when phosphorylated at Thr^{202} in red and PSD95 in green.



Western blot of rat cortical lysate showing specific immunolabeling of the ~62 kDa synaptotagmin phosphorylated at Thr^{202} in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with *lambda* phosphatase (gamma-Ptase, 1200 units for 30 minutes).

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