

Phospho-Ser241 Munc18-1 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1250

Specification

Phospho-Ser241 Munc18-1 Antibody - Product Information

Application	WB
Primary Accession	O08599
Reactivity	Mouse
Predicted	Bovine, Chicken, Human, Monkey, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	65 KDa

Phospho-Ser241 Munc18-1 Antibody - Additional Information

Gene ID	20910
Gene Name	STXBP1

Other Names

Syntaxin-binding protein 1, Protein unc-18 homolog 1, Unc18-1, Protein unc-18 homolog A, Unc-18A, Stxbp1

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser241 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~65k Munc18-1 protein phosphorylated at Ser241. Immunolabeling is blocked by the treatment of the lysate with lambda phosphatase (30 minutes, 800 units / 1 mg protein).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser241 Munc18-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

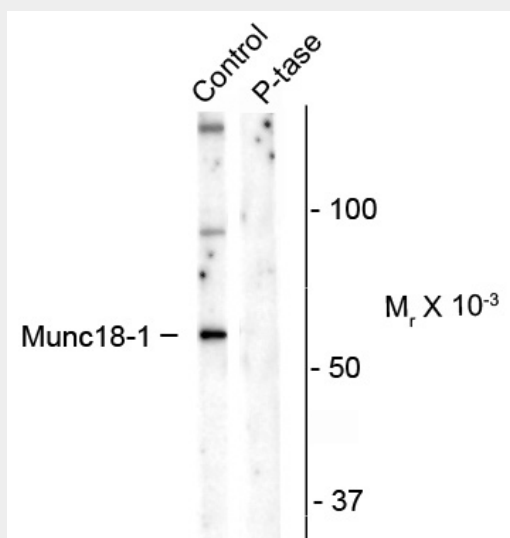
Blue Ice

Phospho-Ser241 Munc18-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Ser241 Munc18-1 Antibody - Images



Western blot of mouse hippocampus lysate showing specific immunolabeling of the ~65k Munc18-1 protein phosphorylated at Ser241. Phosphospecificity is shown in the second lane where immunolabeling is blocked by treatment of the lysate with lambda phosphatase (P-tase).

Phospho-Ser241 Munc18-1 Antibody - 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 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 Munc18-1 is thought to be regulated by phosphorylation.

Phospho-Ser241 Munc18-1 Antibody - References

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.
Liu J, Ernst SA, Gladysheva 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.