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Product datasheet for AP26444PU-N

Snap25 pSer187 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	**Western blot:** 1/1000.
Reactivity:	Guinea Pig, Human, Mouse, Primate, Rat, Zebrafish
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser187 of SNAP25
Specificity:	Specific for the ~25k SNAP25 protein phosphorylated at Ser 187 in Western blots. Immunolabeling is completely blocked by blocked λ -Ptase.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Purification:	Affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	synaptosomal-associated protein 25
Database Link:	Entrez Gene 25012 Rat P60881

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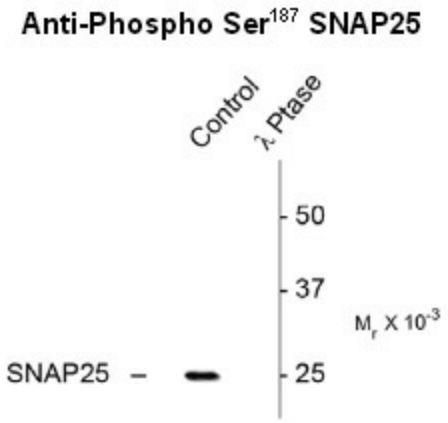
Background: SNAP25 (Synaptosomal associated pr otein of 25 kDa) is a presynaptic plasma membrane protein that is widely distributed throughout the brain and involved in the regulation of neurotransmitter release. Decreased levels of SNAP25 have been found in the brains of patients with Down Syndrome and Alzheimer's Disease (Greber et al., 1999). In addition, a significant reduction in the hippocampal expression of SNAP25 has also been found in patients with Schizophrenia (Fatemi et al., 2001). Increasing evidence suggests that SNAP-25 also modulates various ion channels, including voltage gated calcium channels (VGCCs) (Pozzi el al., 2008). Activation of PKC results in the phosphorylation of SNAP-25 on ser187 (Shu et al ., 2008). Phosphorylation of SNAP25 on ser187 is believed to cause inhibition of VGCC (Pozzi el al., 2008). Since ser187 phosphorylation is transiently induced by neuronal activity, SNAP25 creates a negative feedback mechanism for controlling neuronal excitability (Pozzi el al., 2008).

Synonyms: SNAP-25, SUP, SNAP, Super Protein, RIC4, ric-4

Product images:



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~25k SNAP25 phosphorylated at Ser 187 (Control). Phosphospecificity is shown in the right lane where the signal is completely eliminated by treatment with lambda phosphatase (Î» -Ptase, 400 units/100ul lysate for 30 min).