ARG52424
anti-SNAP25 phospho (Ser187) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SNAP25 phospho (Ser187)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Gpig, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SNAP25
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser187 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Super protein; Synaptosomal-associated 25 kDa protein; bA416N4.2; RIC4; SUP; dJ1068F16.2; SNAP; RIC-4; CMS18; SEC9; SNAP-25; Synaptosomal-associated protein 25

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for the ~25k SNAP25 protein phosphorylated at Ser187 in Western blots. Immunolabeling is completely blocked by blocked λ-Ptase.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

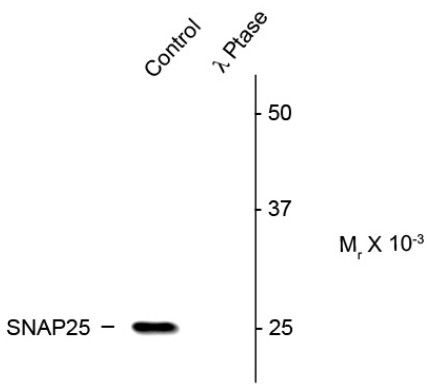
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 25012 Rat Swiss-port # P60881 Rat
Gene Symbol	SNAP25
Gene Full Name	synaptosomal-associated protein 25
Background	SNAP25 (Synaptosomal associated protein 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).
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	23 kDa
PTM	Palmitoylated. Cys-85 appears to be the main site, and palmitoylation is required for membrane association (By similarity).

Images



ARG52424 anti-SNAP25 phospho (Ser187) antibody WB image

Western blot: Rat hippocampal lysate showing specific immunolabeling of the ~25k SNAP25 phosphorylated at Ser 187 (Control) by using ARG52424 anti-SNAP25 phospho (Ser187) antibody.
Phosphospecificity is shown in the right lane where the signal is completely eliminated by treatment with lambda phosphatase (λ-Ptase, 400 units/100ul lysate for 30 min).