SNAP25. S-7B8 Monoclonal Antibody, Human, Mouse, Rat, Monkey, Chicken, Cow

Synaptosome-Associated Protein of 25 kDa

Exalpha Biologicals, Inc.

BACKGROUND

SNAP25 (Synaptosome-Associated Protein of 25 kDa) is a membrane bound, pre-synaptic nerve terminal protein that plays an essential role in synaptic vesicle fusion and exocytosis. It is involved in the molecular regulation of neurotransmitter release. It is thought to play an important role in the synaptic function of specific neuronal systems. SNAP25 associates with proteins involved in vesicle docking and membrane fusion. SNAP25 exists as two alternatively spliced isoforms, SNAP25A and SNAP25B. These isoforms are differentially expressed in neurons and neuroendocrine cells. These two isoforms differ by 9 amino acids in the central portion of the protein.

ORDERING INFORMATION

CATALOG NUMBER
X1597M

SIZE
100 µg

FORM
Purified

HOST/CLONE
Mouse Clone S-7B8

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG1

APPLICATIONS
Western Blot, Immunohistochemistry (Paraffin)

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with rat brain synaptosomal membranes and mouse NS1 cells.

SPECIES REACTIVITY

Human, Mouse, Rat, Monkey, Chicken, Cow

COMMENTS

Antibody can be used for Western blotting (1-5 µg/ml) and immunohistochemistry on paraformaldehyde fixed CNS tissues (1-5 µg/ml). Does not stain reduced proteins. Optimal concentration should be evaluated by serial dilutions.

STORAGE CUSTOMER

Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

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POSITIVE CONTROL

Cerebellum

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

1. Ritchie, T.C., et al. “A nerve terminal protein with a selective distribution in spinal cord and brain.” J. Neurosci. 1989: 9, 2697-2709

2. Zhao, N., et al. “Cloning and sequence analysis of the human SNAP25 cDNA.” Gene 1994: 145, 313-314

3. McMahon , H.T., et al. “Synaptic core complex of synaptobrevin, syntaxin and SNAP25 forms high affinity alpha-SNAP binding site.” J. Biol. Chem. 1995: 270, 2213-2217

4. Gerona, R.R., et al. “The C terminus of SNAP25 is essential for Ca(2+)-dependent binding of synaptotagmin to SNARE complexes.” J. Biol. Chem. 2000: 275, 6328-6336

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