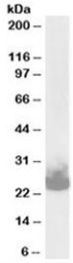
SNAP25 Antibody / Presynaptic Protein Marker (R33407)

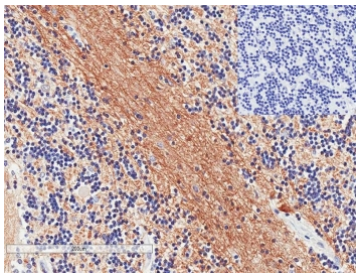
Catalog No.	Formulation	Size
R33407-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

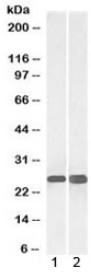
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat, Dog
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	6616
Localization	Cell membrane
Applications	Western blot: 0.01-0.03ug/ml Immunohistochemistry (FFPE): 2-4ug/ml ELISA (peptide) LOD: 1:32000
Limitations	This SNAP25 Antibody / Presynaptic Protein Marker is available for research use only.



SNAP25 Antibody in Mouse Brain WB. Western blot testing of SNAP25 Antibody / Presynaptic Protein Marker in mouse brain lysate at 0.03 ug/ml. SNAP25 has an expected molecular weight of approximately 25 kDa. This SNAP25 Antibody demonstrates detection of the presynaptic protein in mouse brain for studies of neuronal and synaptic protein expression.



SNAP25 Antibody in Human Cerebellum IHC. Immunohistochemistry testing of SNAP25 Antibody / Presynaptic Protein Marker in FFPE human cerebellum tissue at 1 ug/ml. Sections were subjected to heat-induced epitope retrieval by steaming in pH 6 citrate buffer and visualized using HRP staining. Antibody-treated tissue is shown on the left and the corresponding negative control without primary antibody is shown on the right. This SNAP25 Antibody demonstrates staining in human cerebellar tissue.



SNAP25 Antibody in Human Cerebellum and Mouse Brain WB. Western blot testing of SNAP25 Antibody / Presynaptic Protein Marker in 1) human cerebellum and 2) mouse brain lysate at 0.03 ug/ml. SNAP25 has an expected molecular weight of approximately 25 kDa. This SNAP25 Antibody demonstrates detection in neural tissue from both human and mouse samples for studies of presynaptic protein expression.

Description

SNAP25 Antibody / Presynaptic Protein Marker recognizes SNAP25, a membrane-associated protein that is an essential component of the neuronal SNARE complex. Also known as synaptosomal-associated protein 25, SNAP25 associates with syntaxin and synaptobrevin/VAMP proteins to form the molecular machinery that brings synaptic vesicles and the presynaptic plasma membrane together. Formation of this complex is critical for calcium-regulated membrane fusion and neurotransmitter release.

SNAP25 is highly enriched in neurons and particularly associated with presynaptic nerve terminals, making it widely studied in research involving synaptic organization and neuronal function. Through its central role in regulated exocytosis, SNAP25 contributes to synaptic vesicle docking, priming and fusion. Its activity is closely connected with calcium-dependent neurotransmission, and interactions with voltage-gated calcium channels and other presynaptic proteins help coordinate neurotransmitter secretion.

Two major neuronal isoforms, SNAP25a and SNAP25b, are produced through alternative splicing and display differences in developmental expression and functional properties. SNAP25 is also a well-characterized substrate of several clostridial neurotoxins. Proteolytic cleavage of SNAP25 disrupts SNARE complex function and inhibits neurotransmitter release, making the protein relevant to studies of neurosecretion, synaptic physiology and neurotoxin mechanisms.

This goat polyclonal antibody was generated against a peptide sequence from SNAP25 and is antigen affinity purified. The target's strong association with presynaptic terminals makes this antibody relevant to studies of neuronal protein expression and synaptic organization. NSJ Bioreagents provides this SNAP25 Antibody for research into neurotransmission, neuronal signaling and presynaptic biology. A Presynaptic Protein Marker antibody targeting SNAP25 can support studies examining synaptic architecture and the molecular mechanisms underlying regulated neurotransmitter release.

For additional reagents and information on this neuronal SNARE protein, visit our SNAP25 Antibody / Synaptic Vesicle Fusion Protein page.

Application Notes

Optimal dilution of the SNAP25 Antibody / Presynaptic Protein Marker should be determined by the researcher.

Immunogen

Amino acids DEANQRATKMLGSG were used as the immunogen for this SNAP25 antibody.

Storage

Aliquot and store the SNAP25 antibody at -20oC.

Alternate Names

SNAP25 antibody, SNAP-25 antibody, synaptosomal-associated protein 25 antibody, synaptosomal-associated protein 25 kDa antibody, presynaptic protein antibody

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