Human SNAP25 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1079626

Catalog Number: MAB11729

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for Human SNAP-25 around amino acid 30 in Direct ELISA.
Source	Monoclonal Mouse IgG_{2B} Clone # 1079626
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # P60880
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	Human cerebellum tissue
Immunohistochemistry	1-15 µg/mL	Immersion fixed paraffin-embedded sections of human hypothalamus and human brain cortex

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475

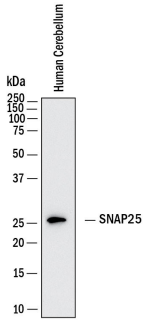
Human SNAP25 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1079626

Catalog Number: MAB11729

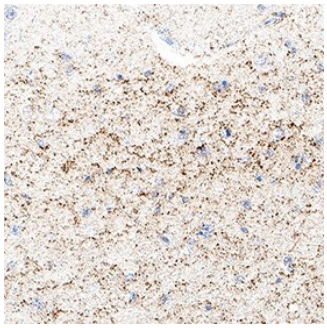
DATA

Western Blot



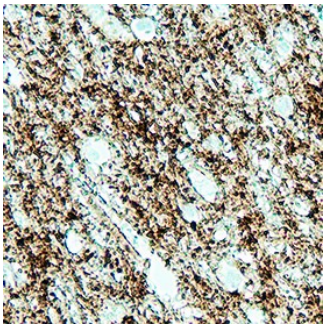
Detection of Human SNAP25 by Western Blot. Western Blot shows lysates of human cerebellum tissue. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human SNAP25 Monoclonal Antibody (Catalog # MAB11729) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF018). A specific band was detected for SNAP25 at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunohistochemistry



Detection of SNAP25 in Human Hypothalamus. SNAP25 was detected in immersion fixed paraffin-embedded sections of human hypothalamus using Mouse Anti-Human SNAP25 Monoclonal Antibody (Catalog # MAB11729) at 1 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # Catalog # VC001) or the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to synapses. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Immunohistochemistry



Detection of SNAP25 in Human Brain Cortex. SNAP25 was detected in immersion fixed paraffin-embedded sections of human brain cortex using Mouse Anti-Human SNAP25 Monoclonal Antibody (Catalog # MAB11729) at 5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007) and counterstained with hematoxylin (blue). Specific staining was localized to the vesicles. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475

Human SNAP25 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1079626

Catalog Number: MAB11729

BACKGROUND

SNAP25 (Synaptosomal associated protein of 25 kDa; also SUP) is a cytosolic 24-29 kDa member of the SNAP25 family of proteins. It is expressed in neurons, β-cells, and adrenal chromaffin cells. SNAP25 is involved in vesicle exocytosis, where two presynaptic SNAP25, and one syntaxin-1 molecule associates with vesicle membrane VAMP2 to form a α-helix via a zipper-like mechanism. This approximates two membranes, which subsequently fuse to create a pore. Human SNAP25b is 206 amino acids (aa) in length. It contains two t-SNARE coiled-coil homology domains (aa 19-81 and 140-202) and a proteolytic cleavage site at Arg180:Ile181. Palmitoylation occurs between aa 85-92; phosphorylation occurs on Thr138. There are three isoform variants. One shows nine aa changes over aa 58-89 (isoform a), a second shows a 30 aa substitution for aa 1-94, while a third contains an alternative start site at Met64. Full-length human and mouse SNAP25 are identical in amino acid sequence.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475