Human/Mouse/Rat Syntaxin-BP1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5675

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Syntaxin-BP1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) Syntaxin-BP2 and rhSyntaxin-BP3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Syntaxin-BP1 Ser80-Ala226 Accession # P61764
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

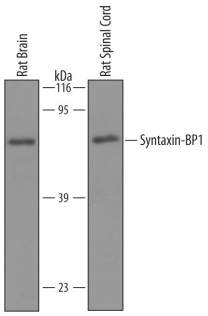
APPLICATIONS

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	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

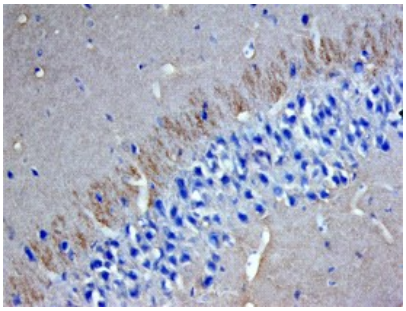
DATA

Western Blot



Detection of Human/Mouse/Rat Syntaxin-BP1 by Western Blot. Western blot shows lysates of rat brain tissue and spinal cord tissue. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Syntaxin-BP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5675) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Syntaxin-BP1 at approximately 67 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



Syntaxin-BP1 in Mouse Brain. Syntaxin-BP1 was detected in perfusion fixed frozen sections of mouse brain (hippocampus) using Human/Mouse/Rat Syntaxin-BP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5675) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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.

BACKGROUND

STXBP1 (Syntaxin-binding protein 1; also p67, Munc18-1, N-Sec1 and Unc18A) is a 67 kDa member of the SNARE-interacting Sec1/Unc18/STXBP family of proteins. It is expressed in a variety of cells, presumably in those that exhibit granule exocytosis, and likely participates in (synaptic) granule release. Ligands for STXBP1 include STX1A, 2 and 3, and it is possible that STXBP1 both suppresses STX activity, and serves as an anchor for STX-mediated vesicle fusion. Human STXBP1 is 594 amino acids (aa) in length. It contains one SEC1 domain (aa 41-575). Phosphorylation at Ser313 may stimulate granule release. There is one splice variant that shows a 28 aa substitution for aa 576-594. This is restricted to neural tissue. Over aa 80-226, human and mouse STXBP1 are absolutely identical in amino acid sequence.

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