Human/Mouse/Rat Syntaxin 8 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5448

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Syntaxin 8 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Syntaxin 8 Met1-Gly215 Accession # Q9UNK0
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

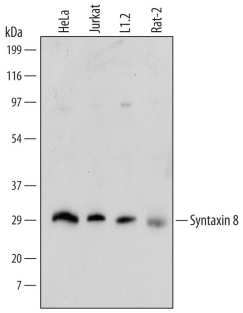
APPLICATIONS

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

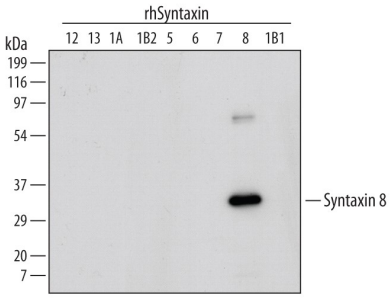
DATA

Western Blot



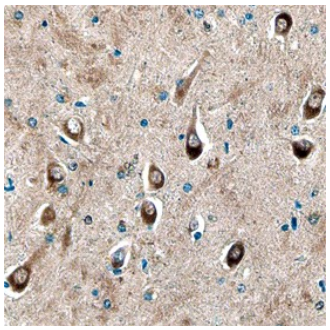
Detection of Human, Mouse, and Rat Syntaxin 8 by Western Blot.
Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, L1.2 mouse pro-B cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL Sheep Anti-Human/Mouse/Rat Syntaxin 8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5448) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for Syntaxin 8 was detected at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



Detection of Human Syntaxin 8 by Western Blot.
Western blot shows recombinant human Syntaxin 12, 16, 1A, 1B2, 5, 6, 7, 8, and 1B1 (5 ng/lane). PVDF membrane was probed with 1 µg/mL Sheep Anti-Human/Mouse/Rat Syntaxin 8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5448) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for Syntaxin 8 was detected as indicated. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Syntaxin 8 in Human Brain.
Syntaxin 8 was detected in immersion fixed paraffin-embedded sections of human brain using Sheep Anti-Human/Mouse/Rat Syntaxin 8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5448) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded 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.

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BACKGROUND

Syntaxin 8 (STX8) is a 28 kDa member of the syntaxin family of proteins. It is ubiquitously expressed, embedded in Golgi, endosomal and lysosomal membranes, and serves as a component of the SNARE complex. STX8 is involved in endosomal homotypic fusion events as well as protein trafficking. Human STX8 is a type IV single-pass transmembrane protein (very short exoplasmic C-terminus) that is 236 amino acids (aa) in length. It contains a coiled-coil region (aa 42-65), a t-SNARE domain (aa 152-207) that is likely involved in protein-protein interactions, and a short, four amino acid C-terminal luminal sequence. Over aa 1-215, human STX8 shares 92% aa identity with mouse STX8.

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