Human Syntaxin 6 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5664

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Syntaxin 6 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) Syntaxin 8, rhSyntaxin 12, and rhSyntaxin 16 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Syntaxin 6 Ser69-Asn217 Accession # O43752		
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

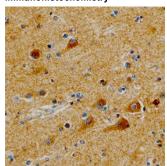
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	5-15 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below

DATA

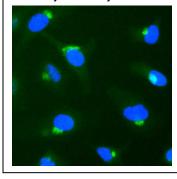
Detection of Human Syntaxin 6 by Western Blot. Western blot shows lysates of human cortex tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human Syntaxin 6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5664) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Syntaxin 6 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



Syntaxin 6 in Human Brain. Syntaxin 6 was detected in immersion fixed paraffinembedded sections of human brain (cortex) using Sheep Anti-Human Syntaxin 6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5664) at 5 μg/mL overnight at 4 °C. 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 the cytoplasm of neurons. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunocytochemistry



Syntaxin 6 in HeLa Human Cell Line. Syntaxin 6 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human Syntaxin 6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5664) at 1.7 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Sheep IgG Secondary Antibody (green; Catalog # NL012) and counterstained with DAPI (blue). Specific staining was localized to Golgi vesicles. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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

- 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.

RED SYSTEMS



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BACKGROUND

Syntaxin 6 (STX6) is a 30-35 kDa member of the syntaxin family of proteins. It is widely expressed, embedded in trans-Golgi and endosomal membranes, and is associated with a variety of SNARE proteins. STX6 is involved in the regulation of caveolae-dependent endocytosis, and is crucial for membrane remodeling. Human STX6 is a type IV single-pass transmembrane protein (very long cytoplasmic N-terminus) that is 255 amino acids (aa) in length. It contains a coiled-coil region (aa 41-74), a t-SNARE domain (aa 163-225) that is likely involved in protein-protein interactions, and a C-terminal transmembrane sequence. There are two splice variants that are also 255 aa in length, but show variation over aa 69-73. Over aa 69-217, human STX6 shares 93% aa identity with mouse STX6.

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