

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Syntaxin 16 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) Syntaxin 1A, rhSyntaxin 6, and rhSyntaxin BP1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Syntaxin 16 isoform B Leu165-Lys301 Accession # O14662
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Syntaxin 16 (STX16; also SNY16) is a 39 kDa member of the syntaxin family of proteins. It is ubiquitously expressed, embedded in the Golgi membrane, and participates in the fusion of early endosomes with the Golgi stacks. Syntaxin 16 contributes one of four coiled-coil domains necessary for retrograde transport. Human Syntaxin 16 is a type IV single-pass transmembrane protein (very short luminal C-terminus) that is 325 amino acids (aa) in length. It contains a cytoplasmic syntaxin region (aa 74-180), a coiled-coil region (aa 230-292), and a short, three amino acid C-terminal luminal sequence. There are multiple potential isoforms. Two show alternate start sites at Met187 and Met54, while three others show deletions of aa 45-48, 28-48 and 28-44, respectively. A cytoplasmic form shows an Ala substitution for aa 132-325. Over aa 165-301, human Syntaxin 16 shares 95% aa identity with mouse Syntaxin 16.

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