

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Syntaxin 7 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Syntaxin 7 Asn21-Glu187 Accession # O15400
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.
Immunocytochemistry	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 7 (STX7) is a widely expressed protein embedded in endosomal and lysosomal membranes, and serves as a component of the SNARE complex. STX7 is involved in endocytic trafficking from early endosomes to late endosomes and lysosomes. This is in contrast to STX8, which is involved in clathrin-independent vesicular transport. Human STX7 is a type IV single-pass transmembrane protein (very short exoplasmic C-terminus) that is 261 amino acids (aa) in length. It contains a coiled-coil region (aa 47-69), a t-SNARE domain (aa 165-227) that is likely involved in protein-protein interactions, and a short, two amino acid, C-terminal luminal sequence. Over aa 21-187, human STX7 shares 97% aa identity with mouse STX7.

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