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STX11 Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19427a

Product Information

Application	WB, E
Primary Accession	O75558
Other Accession	NP_003755.2
Reactivity	Human
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40556
Calculated MW	33196
Antigen Region	29-56

Additional Information

Gene ID	8676
Other Names	Syntaxin-11, STX11
Target/Specificity	This STX11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-56 amino acids from the N-terminal region of human STX11.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	STX11 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STX11 (HGNC:11429)
Function	SNAREs (soluble N-ethylmaleimide-sensitive factor-attachment protein receptors) are essential proteins for intracellular membrane fusion. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex,

	an extended, parallel four-helix bundle whose assembly releases energy that drives membrane fusion. The core SNARE complex typically consists of four alpha-helical domains, three from target membrane SNAREs (t-SNAREs) and one from a vesicle SNARE (v- SNARE) (PubMed:10036234, PubMed:24227526, PubMed:26771955, PubMed:28265073). Syntaxin-11/STX11 is an atypical lipid-anchored t- SNARE that forms a SNARE complex with the t-SNARE SNAP23 and the v- SNARE VAMP8. This SNARE complex plays a critical role in the regulated exocytosis of cytotoxic granules by natural killer (NK) cells and cytotoxic T-lymphocytes (PubMed:17525286, PubMed:19804848, PubMed:19884660, PubMed:24227526, PubMed:26771955, PubMed:28265073). In macrophages, STX11 regulates stimulus-dependent vesicular transport of TLR4 from recycling endosomes to the plasma membrane by cooperating with SNAP23, thereby playing a critical role in microbial component recognition and the induction of innate and adaptive immunity (By similarity). In skeletal muscle satellite cells, STX11 cooperates with its cognate SNAREs VAMP4 and SNAP23 to facilitate CD36 vesicular transport from endosomes to the plasma membrane, an essential step in muscle regeneration (By similarity). In another proposed mechanism, STX11 may function as a regulator of the SNARE VTI1B on late endosomes to regulate trafficking from late endosomes to lysosomes (PubMed:21388490).
Cellular Location	Cell membrane; Lipid-anchor. Late endosome membrane. Note=Palmitoylation participates to membrane anchorage (PubMed:10036234, PubMed:15703195, PubMed:24910990) Localizes at the immunological synapse in activated immune cells (PubMed:24910990, PubMed:26771955). Detected in trans-Golgi network, recycling and late endosomes when overexpressed (PubMed:10036234, PubMed:21388490).
Tissue Location	Broadly expressed. Abundantly expressed in heart, lung and placenta. Expressed in macrophages. Expressed in cytotoxic lymphocytes (at protein level).

Background

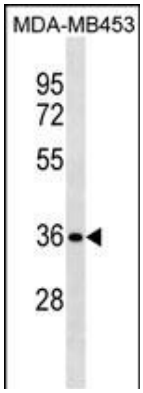
This gene encodes a member of the syntaxin family. Syntaxins have been implicated in the targeting and fusion of intracellular transport vesicles. This family member may regulate protein transport among late endosomes and the trans-Golgi network. Mutations in this gene have been associated with familial hemophagocytic lymphohistiocytosis.

References

Marsh, R.A., et al. Pediatr Blood Cancer 55(1):134-140(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Danielian, S., et al. J. Clin. Immunol. 30(2):330-337(2010)
zur Stadt, U., et al. Am. J. Hum. Genet. 85(4):482-492(2009)
Marcelin, G., et al. Mamm. Genome 20(3):131-139(2009)

Images

STX11 Antibody (N-term)(Cat. #AP19427a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the STX11 antibody detected the STX11 protein (arrow).



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