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STX4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18817c

Product Information

Application	WB, E
Primary Accession	Q12846
Other Accession	Q08850, P70452, Q3SWZ3, NP_004595.2
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39372
Calculated MW	34180
Antigen Region	132-160

Additional Information

Gene ID	6810
Other Names	Syntaxin-4, Renal carcinoma antigen NY-REN-31, STX4, STX4A
Target/Specificity	This STX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-160 amino acids from the Central region of human STX4.
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	STX4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STX4
Synonyms	STX4A
Function	Plasma membrane t-SNARE that mediates docking of transport vesicles (By

	similarity). Necessary for the translocation of SLC2A4 from intracellular vesicles to the plasma membrane (By similarity). In neurons, recruited at neurite tips to membrane domains rich in the phospholipid 1-oleoyl-2-palmitoyl-PC (OPPC) which promotes neurite tip surface expression of the dopamine transporter SLC6A3/DAT by facilitating fusion of SLC6A3-containing transport vesicles with the plasma membrane (By similarity). Together with STXB3 and VAMP2, may also play a role in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes and in docking of synaptic vesicles at presynaptic active zones (By similarity). Required for normal hearing (PubMed:36355422).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q08850}; Single-pass type IV membrane protein. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q08850}. Cell projection, stereocilium {ECO:0000250|UniProtKB:P70452}. Note=Localizes to neurite tips in neuronal cells. {ECO:0000250|UniProtKB:Q08850}
Tissue Location	Expressed in neutrophils and neutrophil- differentiated HL-60 cells. Expression in neutrophils increases with differentiation.

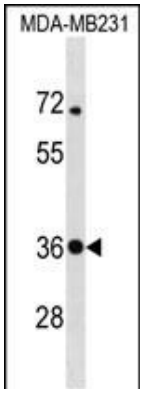
Background

Plasma membrane t-SNARE that mediates docking of transport vesicles. Necessary for the translocation of SLC2A4 from intracellular vesicles to the plasma membrane. Together with STXB3 and VAMP2, may also play a role in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes (By similarity). May also play a role in docking of synaptic vesicles at presynaptic active zones.

References

Evesson, F.J., et al. J. Biol. Chem. 285(37):28529-28539(2010)
Kennedy, M.J., et al. Cell 141(3):524-535(2010)
Brochetta, C., et al. Biochim. Biophys. Acta 1783(10):1781-1791(2008)
Cooper, G.M., et al. Blood 112(4):1022-1027(2008)
Low, S.H., et al. Mol. Biol. Cell 17(2):977-989(2006)

Images



STX4 Antibody (Center)(Cat. #AP18817c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the STX4 antibody detected the STX4 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.