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STX4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5579

Product Information

Application	WB
Primary Accession	Q12846
Other Accession	Q3SWZ3, P70452, Q08850
Reactivity	Human, Rat
Predicted	Human, Dog, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34180
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	6810
Antigen Region	132-160
Other Names	Syntaxin-4, Renal carcinoma antigen NY-REN-31, STX4, STX4A
Dilution	WB~~1:1000
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.
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.

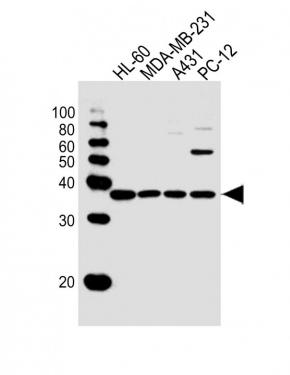
Background

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



All lanes : Anti-STX4 Antibody (Center) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lane 2: MDA-MB-231 whole cell lysate Lane 3: A431 whole cell lysate Lane 4: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.