10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STX4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5579

Specification

STX4 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q12846
Other Accession	Q3SWZ3, P70452, Q08850
Reactivity	**Human, Rat**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=34;M=34;R=34 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

STX4 Antibody (Center) - 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.

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.

STX4 Antibody (Center) - 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}

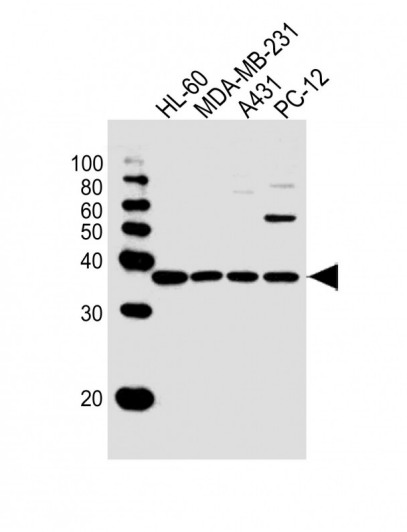
Tissue Location
Expressed in neutrophils and neutrophil- differentiated HL-60 cells. Expression in neutrophils increases with differentiation.

STX4 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STX4 Antibody (Center) - Images



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

STX4 Antibody (Center) - 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.

STX4 Antibody (Center) - 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)