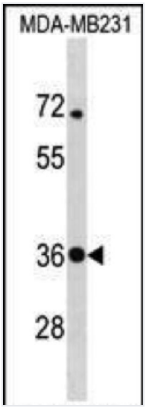
# STX4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | STX4, Polyclonal Antibody |
| **Full Product Name** | STX4, ID (STX4, STX4A, Syntaxin-4, Renal carcinoma antigen NY-REN-31) (MaxLight 650) |
| **Product Gene Name** | anti-STX4 antibody |
| **Product Synonym Names** | STX4; STX4A; Syntaxin-4; Renal carcinoma antigen NY-REN-31 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **Purity/Purification** | Purified by Protein A and Peptide Affinity Chromatography. |
| **Specificity** | Recognizes human STX4. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 34,180 Da |
| **Chromosome Location** | Chromosome: 16; NC_000016.10 (31033095..31040168). Location: 16p11.2 |
| **OMIM** | 186591 |
| **3D Structure** | ModBase 3D Structure for Q12846 |
| **Immunogen** | KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 132-160 in the central region of human STX4, Swiss/UniProt Accession: Q12846. Species sequence homology: bovine, mouse, rat |
| **Conjugate** | MaxLight650 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-STX4 antibody** | Antibodies; Cancer Markers |
| **Applications Tested/Suitable for anti-STX4 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-STX4 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-STX4 antibody** | 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. |
| **Product References and Citations for anti-STX4 antibody** | 1. Evesson, F.J., et al. J. Biol. Chem. 285(37):28529-28539 (2010). 2. Kennedy, M.J., et al. Cell 141(3):524-535 (2010). 3. Brochetta, C., et al. Biochim. Biophys. Acta 1783(10):1781-1791(2008). 4. Cooper, G.M., et al. Blood 112(4):1022-1027 (2008). 5. Low, S.H., et al. Mol. Biol. Cell 17(2):977-989 (2006). |

| | |
|---|---|
| **Other Notes** | Small volumes of anti-STX4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for STX4 purchase** | MBS6352365 is an antibody targeting STX4. Also known as STX4, ID (STX4, STX4A, Syntaxin-4, Renal carcinoma antigen NY-REN-31) (MaxLight 650). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-STX4 antibody**
Western Blot analysis in MDA-MB231 cell line lysates (35ug/lane) usingMBS647072. This demonstrates MBS647072 detected the STX4 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STX4. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 20149560 |
| **NCBI GeneID** | 6810 |
| **NCBI Accession #** | NP_004595.2 |
| **UniProt Primary Accession #** | Q12846 |
| **UniProt Secondary Accession #** | Q15525; Q6FHE8 |
| **UniProt Related Accession #** | Q12846 |
| **GenBank Nucleotide #** | NM_004604.4 |
| **NCBI Official Full Name** | syntaxin-4 isoform 3 |
| **NCBI Official Synonym Full Names** | syntaxin 4 |
| **NCBI Official Symbol** | STX4 |
| **NCBI Official Synonym Symbols** | STX4A; p35-2 |
| **UniProt Protein Name** | Syntaxin-4 |
| **UniProt Synonym Protein Names** | Renal carcinoma antigen NY-REN-31 |
| **Protein Family** | Syntaxin-binding protein |
| **UniProt Gene Name** | STX4 |
| **UniProt Synonym Gene Names** | STX4A |
| **UniProt Entry Name** | STX4_HUMAN |
| **NCBI Protein Information** | syntaxin-4; syntaxin 4A (placental); renal carcinoma antigen NY-REN-31 |

| | |
|---|---|
| **UniProt Comments for STX4** | STX4: a protein of the syntaxin/epimorphin family. Contains 1 t-SNARE coiled-coil homology domain. Potentially involved in docking of synaptic vesicles at presynaptic active zones. Interacts with SNAP23 and SNAP25BP. Found in a complex with VAMP8 and SNAP23 in pancreas.<br><br>Protein type: Vesicle; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 16p11.2<br><br>Cellular Component: extracellular space; specific granule; cell surface; lateral loop; basolateral plasma membrane; integral to membrane; dendritic spine; trans-Golgi network; cytosol; SNARE complex; synaptic vesicle; membrane; perinuclear region of cytoplasm; lamellipodium; plasma membrane; vacuole; synapse; intracellular; endosome<br><br>Molecular Function: sphingomyelin phosphodiesterase activator activity; SNAP receptor activity; SNARE binding; protein binding<br><br>Biological Process: positive regulation of catalytic activity; platelet activation; positive regulation of cell adhesion; organelle fusion; positive regulation of eosinophil degranulation; positive regulation of chemotaxis; positive regulation of immunoglobulin secretion; synaptic vesicle fusion to presynaptic membrane; regulation of exocytosis; intracellular protein transport; response to hydroperoxide; vesicle docking; positive regulation of cell proliferation; post-Golgi vesicle-mediated transport; blood coagulation; positive regulation of cell migration |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/stx4/6352365