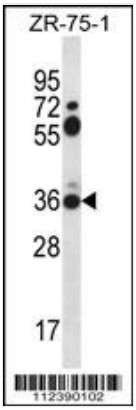
STX2 Antibody – Rabbit Polyclonal

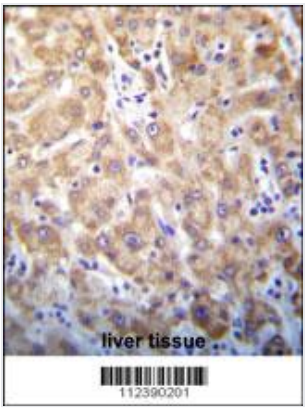
PRODUCT OVERVIEW

Product Name	STX2, Polyclonal Antibody
Full Product Name	STX2 Antibody (Center)
Product Gene Name	anti-STX2 antibody
Product Synonym Names	Syntaxin-2; Epimorphin; STX2; EPIM; STX2A; STX2B; STX2C
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse
Form/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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.37 (lot specific)
Specificity	This STX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123-152 amino acids from the Central region of human STX2.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	STX2 peptide (MBS9219154) is used for blocking the activity of STX2 antibody (MBS9208413)
Molecular Weight	33341
Immunogen Sequence Positions	123-152
OMIM	132350
3D Structure	ModBase 3D Structure for P32856
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-STX2 antibody	Cancer; Neuroscience; Signal transduction
Applications Tested/Suitable for anti-STX2 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-STX2 antibody	WB~~1:1000
Related Product Information for anti-STX2 antibody	The product of this gene belongs to the syntaxin/epimorphin family of proteins. The syntaxins are a large protein family implicated in the targeting and fusion of intracellular transport vesicles. The product of this gene regulates epithelial-mesenchymal interactions and epithelial cell morphogenesis and activation. Alternatively spliced transcript variants encoding different isoforms have been identified.

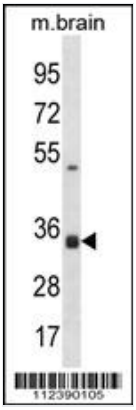
Product References and Citations for anti-STX2 antibody	Chen, C.S., et al. J. Biol. Chem. 284(11):6877-6884(2009) Okugawa, Y., et al. J. Invest. Dermatol. 128(8):1884-1893(2008) Flaumenhaft, R., et al. Blood 110(5):1492-1501(2007) Low, S.H., et al. Mol. Biol. Cell 17(2):977-989(2006) Band, A.M., et al. BMC Cell Biol. 6 (1), 26 (2005) :
Other Notes	Small volumes of anti-STX2 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 STX2 purchase	MBS9208413 is an antibody targeting STX2. Also known as STX2 Antibody (Center). Reactive in Human, mouse. Host: Rabbit.



Western Blot (WB) of anti-STX2 antibody
STX2 Antibody (Center) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the STX2 antibody detected the STX2 protein (arrow).



Immunohistochemistry (IHC) of anti-STX2 antibody
STX2 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of STX2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blot (WB) of anti-STX2 antibody
STX2 Antibody (Center) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the STX2 antibody detected the STX2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STX2. It may not necessarily be applicable to this product.

NCBI GI #	37577287
NCBI GeneID	2054
NCBI Accession #	NP_001971.2
NCBI Related Accession #	NP_919337.1
UniProt Primary Accession #	P32856
UniProt Secondary Accession #	Q86VW8

UniProt Related Accession #	P32856
GenBank Nucleotide #	NM_001980.3
NCBI Official Full Name	syntaxin-2 isoform 1
NCBI Official Synonym Full Names	syntaxin 2
NCBI Official Symbol	STX2
NCBI Official Synonym Symbols	EPM; EPIM; STX2A; STX2B; STX2C
UniProt Protein Name	Syntaxin-2
UniProt Synonym Protein Names	Epimorphin
Protein Family	Syntaxin
UniProt Gene Name	STX2
UniProt Synonym Gene Names	EPIM; STX2A; STX2B; STX2C
UniProt Entry Name	STX2_HUMAN
NCBI Protein Information	syntaxin-2
NCBI Summary for STX2	The product of this gene belongs to the syntaxin/epimorphin family of proteins. The syntaxins are a large protein family implicated in the targeting and fusion of intracellular transport vesicles. The product of this gene regulates epithelial-mesenchymal interactions and epithelial cell morphogenesis and activation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for STX2	STX2: Essential for epithelial morphogenesis. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm. Belongs to the syntaxin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle; Membrane protein, integral Chromosomal Location of Human Ortholog: 12q24.33 Cellular Component: SNARE complex; extracellular space; synaptic vesicle; cell surface; intracellular membrane-bound organelle; lamellipodium; basolateral plasma membrane; integral to membrane; plasma membrane; endomembrane system; intercellular junction; lipid raft Molecular Function: protein dimerization activity; SNAP receptor activity; protein binding; SNARE binding; calcium-dependent protein binding Biological Process: synaptic vesicle fusion to presynaptic membrane; intracellular protein transport; organ morphogenesis; response to hydroperoxide; vesicle docking; regulation of blood coagulation; acrosome reaction; ectoderm development; signal transduction; cell differentiation; protein oligomerization; regulation of cytoskeleton organization and biogenesis
Research Articles on STX2	**1.** Identify 3 loci associated with circulating tPA levels, the PLAT region, STXBP5, and STX2. Functional studies implicate a novel role for STXBP5 and STX2 in regulating tPA release.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/stx2/9208413