FXYD3 Human Protein

PRODUCT OVERVIEW

Product Name	FXYD3, Protein
Full Product Name	Human FXYD3 full length protein-synthetic nanodisc
Product Gene Name	FXYD3 protein
Product Synonym Names	MAT8; PLML
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	87
OMIM	604996
3D Structure	ModBase 3D Structure for Q14802
Tag	C-DYKDDDDK
Product Categories/Family for FXYD3 protein	Full Length Transmembrane Proteins; Ion Channels: Other
Related Product Information for FXYD3 protein	This gene belongs to a small family of FXYD-domain containing regulators of Na+/K+ ATPases which share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD, and containing 7 invariant and 6 highly conserved amino acids. This gene encodes a cell membrane protein that may regulate the function of ion-pumps and ion-channels. This gene may also play a role in tumor progression. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]
Other Notes	Small volumes of FXYD3 protein 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 FXYD3 purchase	MBS1882979 is a protein targeting FXYD3. Also known as Human FXYD3 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FXYD3. It may not necessarily be applicable to this product.

NCBI GI #	3024101
NCBI GeneID	5349
NCBI Accession #	Q14802.1
UniProt Primary Accession #	Q14802
UniProt Secondary Accession #	Q13211; Q6IB59; A6NDE0; C9JDU2; F5H174; F8WB34
UniProt Related Accession #	Q14802
NCBI Official Full Name	FXYD domain-containing ion transport regulator 3

NCBI Official Synonym Full Names	FXYD domain containing ion transport regulator 3
NCBI Official Symbol	FXYD3
NCBI Official Synonym Symbols	MAT8; PLML
UniProt Protein Name	FXYD domain-containing ion transport regulator 3
UniProt Synonym Protein Names	Chloride conductance inducer protein Mat-8; Mammary tumor 8 kDa protein; Phospholemman-like
Protein Family	FXYD domain-containing ion transport regulator
UniProt Gene Name	FXYD3
UniProt Synonym Gene Names	MAT8; PLML
UniProt Entry Name	FXYD3_HUMAN
NCBI Protein Information	FXYD domain-containing ion transport regulator 3; phospholemman-like protein; mammary tumor 8 kDa protein; chloride conductance inducer protein Mat-8
UniProt Comments for FXYD3	FXYD3: Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes. May be a modulator capable of activating endogenous oocyte channels. Belongs to the FXYD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.12 Cellular Component: endoplasmic reticulum membrane; integral to plasma membrane; plasma membrane Molecular Function: chloride channel activity; ATPase binding Biological Process: regulation of catalytic activity; chloride transport; transmembrane transport
Research Articles on FXYD3	**1.** All three markers correlated significantly with regional lymph node metastasis: FXYD3 (p = 0.0110), S100A11 (p = 0.0071), and GSTM3 (p = 0.0173) in colon cancer lymphatic metastasis.
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