FXYD5 Human Protein

PRODUCT OVERVIEW

Product Name	FXYD5, Protein
Full Product Name	Human FXYD5-Strep full length protein-synthetic nanodisc
Product Gene Name	FXYD5 protein
Product Synonym Names	DYSAD; HSPC113; IWU1; KCT1; OIT2; PRO6241; RIC
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	11,888 Da
OMIM	606669
3D Structure	ModBase 3D Structure for Q96DB9
Tag	C-DYKDDDDK&Strep
Product Categories/Family for FXYD5 protein	Full Length Transmembrane Proteins; Ion Channels: Other
Related Product Information for FXYD5 protein	This gene encodes a member of a family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYD-domain containing ion transport regulator. Mouse FXYD5 has been termed RIC (Related to Ion Channel). FXYD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemman), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYD1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. This gene product, FXYD5, is a glycoprotein that functions in the up-regulation of chemokine production, and it is involved in the reduction of cell adhesion via its ability to down-regulate E-cadherin. It also promotes metastasis, and has been linked to a variety of cancers. Alternative splicing results in multiple transcript variants. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Sep 2009]
Other Notes	Small volumes of FXYD5 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 FXYD5 purchase	MBS1883739 is a protein targeting FXYD5. Also known as Human FXYD5-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FXYD5. It may not necessarily be applicable to this product.

NCBI GI #	257195182
NCBI GeneID	53827
NCBI Accession #	NP_001158077.1

UniProt Primary Accession #	Q96DB9
UniProt Secondary Accession #	Q6UW44; Q9HC34; Q9P039; B7WNZ8
UniProt Related Accession #	Q96DB9
GenBank Nucleotide #	NM_001164605.1
NCBI Official Full Name	FXYD domain-containing ion transport regulator 5
NCBI Official Synonym Full Names	FXYD domain containing ion transport regulator 5
NCBI Official Symbol	FXYD5
NCBI Official Synonym Symbols	RIC; IWU1; KCT1; OIT2; DYSAD; HSPC113; PRO6241
UniProt Protein Name	FXYD domain-containing ion transport regulator 5
UniProt Synonym Protein Names	Dysadherin
Protein Family	FXYD domain-containing ion transport regulator
UniProt Gene Name	FXYD5
UniProt Synonym Gene Names	DYSAD; IWU1
UniProt Entry Name	FXYD5_HUMAN
NCBI Protein Information	FXYD domain-containing ion transport regulator 5; dysadherin; keratinocytes associated transmembrane protein 1
UniProt Comments for FXYD5	FXYD5: Involved in down-regulation of E-cadherin which results in reduced cell adhesion. Promotes metastasis. Belongs to the FXYD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Actin-binding; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.12 Cellular Component: integral to membrane Molecular Function: cadherin binding; ion channel activity; actin binding Biological Process: microvillus biogenesis; negative regulation of calcium-dependent cell-cell adhesion
Research Articles on FXYD5	**1.** we are focusing on the role of dysadherin in E-cadherin downregulation, the various expression patterns of the molecule in head and neck cancer
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