FXYD5 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	FXYD5, Lysate
Full Product Name	Human FXYD5 Protein Lysate
Product Gene Name	FXYD5 lysate
Product Synonym Names	FXYD5; DYSAD; HSPC113; IWU1; KCT1; OIT2; PRO6241; RIC
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	19kDa
OMIM	606669
3D Structure	ModBase 3D Structure for Q96DB9
Related Product Information for FXYD5 lysate	Human FXYD5 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of FXYD5 lysate 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	MBS8412015 is a lysate targeting FXYD5. Also known as Human FXYD5 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	21618361
NCBI GeneID	53827
NCBI Accession #	NP_054883
UniProt Primary Accession #	Q96DB9
UniProt Related Accession #	Q96DB9
GenBank Nucleotide #	NM_014164
NCBI Official Full Name	FXYD domain-containing ion transport regulator 5 isoform 1
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
NCBI Summary for FXYD5	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]
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.** the ratio between FXYD5 and alpha1-beta1 heterodimer determines whether the Na,K-ATPase acts as a positive or negative regulator of intercellular adhesion.
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. 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/lysate/fxyd5/8412015