FXYD5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FXYD5/Dysadherin, Polyclonal Antibody
Full Product Name	FXYD5/Dysadherin Polyclonal Antibody
Product Gene Name	anti-FXYD5 antibody
Product Synonym Names	FXYD domain-containing ion transport regulator 5; Dysadherin; FXYD5; DYSAD; IWU1
Clonality	Polyclonal
Host	Rabbit
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	11,888 Da
OMIM	606669
3D Structure	ModBase 3D Structure for Q96DB9
Applications Tested/Suitable for anti-FXYD5 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF), Immunocytochemistry (ICC)
Related Product Information for anti-FXYD5 antibody	MBS9235165 is an antibody targeting FXYD5. Also known as FXYD5/Dysadherin Polyclonal Antibody. Host: Rabbit.
Other Notes	Small volumes of anti-FXYD5 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.

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
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.** 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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