

**FXYD5 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14909c****Specification**

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**FXYD5 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96DB9](#)**FXYD5 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 53827**Other Names**

FXYD domain-containing ion transport regulator 5, Dysadherin, FXYD5, DYSAD, IWU1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**FXYD5 Antibody (Center) Blocking Peptide - Protein Information****Name** FXYD5**Synonyms** DYSAD, IWU1**Function**

Involved in down-regulation of E-cadherin which results in reduced cell adhesion. Promotes metastasis.

**Cellular Location**

Membrane; Single-pass type I membrane protein

**FXYD5 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**FXYD5 Antibody (Center) Blocking Peptide - Images****FXYD5 Antibody (Center) Blocking Peptide - Background**

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 PFXVD 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](mailto:sweadner@helix.mgh.harvard.edu).]

### **FXYD5 Antibody (Center) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Ono, K., et al. Anticancer Res. 30(9):3273-3278(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Liang, J.F., et al. Pathol. Res. Pract. 205(7):445-450(2009) Batistatou, A., et al. Endocr. Pathol. 19(3):197-202(2008)