

Datasheet for ABIN2780210  
**anti-FXYD5 antibody (N-Term)**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	FXYD5
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FXYD5 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human FXYD5
Sequence:	LQPTSPPTW PADETPQPQT QTQQLEGTDG PLVTDPECHK STKAAHPTDD
Predicted Reactivity:	Human: 100%, Mouse: 100%, Yeast: 90%
Characteristics:	This is a rabbit polyclonal antibody against FXYD5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

## Target Details

Target:	FXYD5
Alternative Name:	FXYD5 ( <a href="#">FXYD5 Products</a> )

## Target Details

Background:	<p>FXYD5 is 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 RIon Channel (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 (RIon Channel) 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, has not been characterized as a protein.</p> <p>Alias Symbols: RIC, IWU1, KCT1, OIT2, DYSAD, HSPC113, PRO6241</p> <p>Protein Interaction Partner: UBC,</p> <p>Protein Size: 178</p>
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Molecular Weight:	20 kDa
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Gene ID:	53827
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NCBI Accession:	<a href="#">NM_144779</a> , <a href="#">NP_659003</a>
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UniProt:	<a href="#">Q96DB9</a>
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## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
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Comment:	Antigen size: 178 AA
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
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Concentration:	Lot specific
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Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
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Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

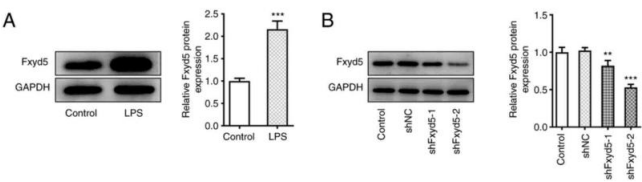
Publications

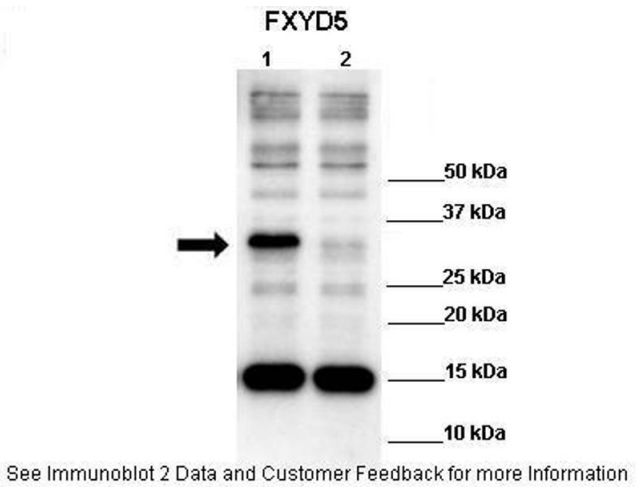
Product cited in:	Chang, Chen, Wu, Wu, Yen, Ouyang: "Characterization of centrosomal proteins Cep55 and pericentrin in intercellular bridges of mouse testes." in: <b>Journal of cellular biochemistry</b> , Vol. 109, Issue 6, pp. 1274-85, (2010) ( <a href="#">PubMed</a> ).
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Images

Western Blotting

**Image 1.** Fxyd5 silencing enhances cell viability and inhibits cell apoptosis and ECM degradation in ATDC5 cells. (A) Western blot analysis showing the upregulated expression levels of Fxyd5 in ATDC5 cells treated with 5 µg/ml LPS for 5 h. \*\*\*P<0.001 vs. the control group. (B) shFxyd5-2 exhibited a more potent effect on Fxyd5 silencing compared with shFxyd5-1. Western blot analysis showed that the protein expression levels of Fxyd5 were decreased by ~50% compared with the shNC group. \*\*P<0.01 and \*\*\*P<0.001 vs. the shNC group. Source: PMID35191523





**Western Blotting**

**Image 2.** Lanes: Lane 1: 10ug hFXYD5 transfected 293T lysate Lane 2: 10ug 293T lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-rabbit HRP Secondary Antibody Dilution: 1:4000 Gene Name: FXYD5 Submitted by: Anonymous



**Western Blotting**

**Image 3.** WB Suggested Anti-FXYD5 Antibody Titration: 0.625ug/ml ELISA Titer: 1:312500 Positive Control: Human Placenta