

Recombinant Full Length Human FXYD2 Protein, GST-tagged

Cat. No. FXYD2-5278HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FXYD2 full-length ORF (AAH05302.1, 1 a.a. - 64 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	64 amino acids
Description	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. The Type III integral membrane protein encoded by this gene is the gamma subunit of the Na,K-ATPase present on the plasma membrane. Although the Na,K-ATPase does not depend on the gamma subunit to be functional, it is thought that the gamma subunit modulates the enzymes activity by inducing ion channel activity. Mutations in this gene have been associated with renal

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	hypomagnesaemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Molecular Mass	32.78 kDa
AA Sequence	MDRWYLGGSPPKGDVDPFYDYETVRNGGLIFAGLAFIVGLLILLSRRFRCGGNKKRR QINEDEP
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	FXVD2 FXVD domain containing ion transport regulator 2 [Homo sapiens]
Official Symbol	FXVD2
Synonyms	FXVD2; FXVD domain containing ion transport regulator 2; ATP1G1, HOMG2, hypomagnesemia 2, renal; sodium/potassium-transporting ATPase subunit gamma; MGC12372; sodium pump gamma chain; Na(+)/K(+) ATPase subunit gamma; ATPase, Na+/K+ transporting, gamma 1 polypeptide; HOMG2; ATP1G1;
Gene ID	486

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mRNA Refseq	NM_001680
Protein Refseq	NP_001671
MIM	601814
UniProt ID	P54710

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