

Recombinant Human FXYP2 Protein, GST-tagged

Cat. No. FXYP2-4579H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human FXYP2 full-length ORF (AAH05302.1, 1 a.a. - 64 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

Wheat Germ

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 PFXYP and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYP-domain containing ion transport regulator. Mouse FXYP5 has been termed RIC (Related to Ion Channel). FXYP2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYP1 (phospholemman), FXYP2 (gamma), FXYP3 (MAT-8), FXYP4 (CHIF), and FXYP5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYP1 and FXYP2), 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 hypomagnesaemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

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Molecular Mass	32.78 kDa
AA Sequence	MDRWYLGGSPKGDVDPFYDYETVRNGGLIFAGLAFIVGLLILLSRRFRCGGNKKRR 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
mRNA Refseq	NM_001680

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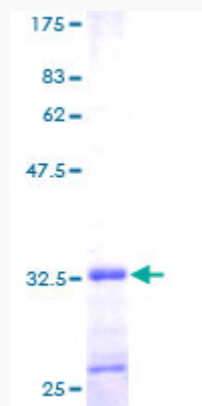
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Protein Refseq NP_001671

MIM 601814

UniProt ID P54710

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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