

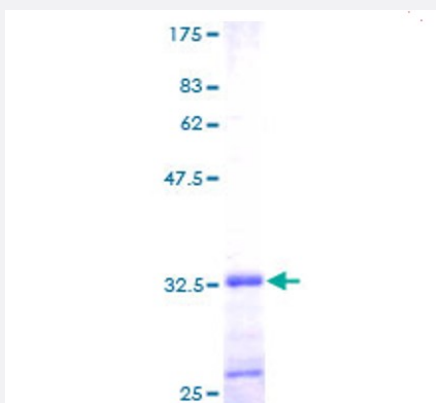
Full-Length

FXYD2 (Human) Recombinant Protein (P01)

Catalog # H00000486-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human FXYD2 full-length ORF (AAH05302.1, 1 a.a. - 64 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDRWYLGGSPPKGDVDPFYDYETVRNGGLIFAGLAFVGLLILLSRRFRCCGNGKKRRQINEDEP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	32.78
Interspecies Antigen Sequence	Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FXYD2

Entrez GeneID [486](#)

GeneBank Accession# [BC005302](#)

Protein Accession# [AAH05302.1](#)

Gene Name FXYD2

Gene Alias ATP1G1, HOMG2, MGC12372

Gene Description FXYD domain containing ion transport regulator 2

Omim ID [154020 601814](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 enzyme's 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]

Other Designations

ATPase, Na⁺/K⁺ transporting, gamma 1 polypeptide|FXD domain-containing ion transport regulator 2|Sodium-potassium-ATPase, gamma polypeptide|hypomagnesemia 2, renal
