Recombinant Mouse Fxyd2 Protein, MYC/DDK-tagged

Cat. No. Fxyd2-665M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse FXYD domain-containing ion transport regulator 2 (Fxyd2), transcript variant a, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 enzyme's activity by inducing ion channel activity. Multiple transcript variants have been described for this gene that are expressed in tissue-specific and developmental stage-specific patterns

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	and encode proteins that differ at the N-terminus.
Molecular Mass	7.5 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fxyd2 FXYD domain-containing ion transport regulator 2 [Mus musculus (house mouse)]
Official Symbol	Fxyd2
Synonyms	Fxyd2; FXYD domain-containing ion transport regulator 2; Atp1g1; sodium/potassium-transporting ATPase subunit gamma; ATPase, Na+/K+ transporting, gamma 1 polypeptide; Na(+)/K(+) ATPase subunit gamma; sodium pump gamma chain; sodium/potassium-transporting ATPase gamma chain
Gene ID	11936
mRNA Refseq	NM_007503

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Protein Refseq	NP_031529
UniProt ID	Q04646

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