FXYD2 rabbit monoclonal antibody

Catalog # H00000486-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human FXYD2 peptide using ARM Technology.
Immunogen	A synthetic peptide of human FXYD2 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human FXYD2 peptide by ELISA and mammalian transfected lysate by W estern Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — FXYD2

Entrez GeneID	486
GeneBank Accession#	FXYD2
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 C hannel). 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), an d FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. T ransmembrane 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 Ty pe 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 su bunit to be functional, it is thought that the gamma subunit modulates the enzyme's activity by indu cing ion channel activity. Mutations in this gene have been associated with renal hypomagnesaem ia. Alternatively spliced transcript variants encoding different isoforms have been found for this ge ne. [provided by RefSeq
Other Designations	ATPase, Na+/K+ transporting, gamma 1 polypeptide|FXYD domain-containing ion transport regul ator 2|Sodium-potassium-ATPase, gamma polypeptide|hypomagnesemia 2, renal