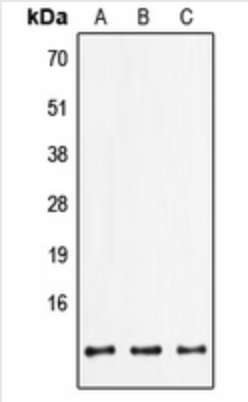
FXYD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FXYD2, Polyclonal Antibody
Full Product Name	Rabbit anti-FXYD2 Antibody
Product Gene Name	anti-FXYD2 antibody
Product Synonym Names	ATP1C; ATP1G1; Sodium/potassium-transporting ATPase subunit gamma; Na(+)/K(+) ATPase subunit gamma; FXYD domain-containing ion transport regulator 2; Sodium pump gamma chain
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	7,355 Da
OMIM	phenotype 601814
3D Structure	ModBase 3D Structure for P54710
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human FXYD2. The exact sequence is proprietary.
Product Categories/Family for anti-FXYD2 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-FXYD2 antibody	Western Blot (WB)
Application Notes for anti-FXYD2 antibody	WB: 1:500-1:1000
Related Product Information for anti-FXYD2 antibody	MBS4506610 is an antibody targeting FXYD2. Also known as Rabbit anti-FXYD2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FXYD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-FXYD2 antibody
Western blot analysis of FXYD2 expression in HepG2 (A), mouse lung (B), rat brain (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FXYD2. It may not necessarily be applicable to this product.

NCBI GI #	11125764
NCBI GeneID	486
NCBI Accession #	NP_067614.1
UniProt Primary Accession #	P54710
UniProt Secondary Accession #	Q04646; Q04679
UniProt Related Accession #	P54710
GenBank Nucleotide #	NM_021603.3
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit gamma isoform 2
NCBI Official Synonym Full Names	FXYD domain containing ion transport regulator 2
NCBI Official Symbol	FXYD2
NCBI Official Synonym Symbols	HOMG2; ATP1G1
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit gamma
UniProt Synonym Protein Names	FXYD domain-containing ion transport regulator 2; Sodium pump gamma chain
Protein Family	Sodium/potassium-transporting ATPase
UniProt Gene Name	FXYD2
UniProt Synonym Gene Names	ATP1C; ATP1G1; Na(+)/K(+) ATPase subunit gamma
UniProt Entry Name	ATNG_HUMAN
NCBI Protein Information	sodium/potassium-transporting ATPase subunit gamma; sodium pump gamma chain; Na(+)/K(+) ATPase subunit gamma; ATPase, Na+/K+ transporting, gamma 1 polypeptide
NCBI Summary for FXYD2	This gene encodes a member of the FXYD family of transmembrane proteins. This particular protein encodes the sodium/potassium-transporting ATPase subunit gamma. Mutations in this gene have been associated with Renal Hypomagnesemia-2. Alternatively spliced transcript variants have been described. Read-through transcripts have been observed between this locus and the upstream FXYD domain-containing ion transport regulator 6 (FXYD6, GeneID 53826) locus.[provided by RefSeq, Feb 2011]

UniProt Comments for FXYD2	FXYD2: May be involved in forming the receptor site for cardiac glycoside binding or may modulate the transport function of the sodium ATPase. Defects in FXYD2 are the cause of hypomagnesemia type 2 (HOMG2); also known as dominant renal hypomagnesemia or hypomagnesemia with hypocalciuria. HOMG2 is a disorder due to primary renal wasting of magnesium. Plasma levels of other electrolytes are normal. The only abnormality found, in addition to low magnesium levels, is lowered renal excretion of calcium resulting in hypocalciuria. Belongs to the FXYD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23 Cellular Component: intracellular membrane-bound organelle; basolateral plasma membrane; plasma membrane; sodium:potassium-exchanging ATPase complex Molecular Function: transporter activity; ion channel activity; sodium:potassium-exchanging ATPase activity Biological Process: transport; regulation of cell growth; transmembrane transport; potassium ion transport; regulation of cell proliferation Disease: Hypomagnesemia 2, Renal
Research Articles on FXYD2	**1.** our findings suggested that FXYD2c played a role in regulation of NKA activity by enhancing the expression of NKA in HK-2 cells upon hypertonic challenge.
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