Best Tools for immunology Research

FXYD2 Polyclonal Antibody

Catalog No :	YT6266
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;ELISA
Target :	FXYD2
Fields :	>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Insulin secretion;>>Thyroid hormone synthesis;>>Thyroid hormone signaling pathway;>>Aldosterone-regulated sodium reabsorption;>>Endocrine and other factor-regulated calcium reabsorption;>>Proximal tubule bicarbonate reclamation;>>Salivary secretion;>>Pancreatic secretion;>>Carbohydrate digestion and absorption;>>Protein digestion and absorption;>>Bile secretion;>>Mineral absorption
Gene Name :	FXYD2 ATP1C ATP1G1
Protein Name :	FXYD2
Human Gene Id :	486
Human Swiss Prot No :	P54710
Immunogen :	Synthesized peptide derived from human FXYD2 AA range: 10-90
Specificity :	This antibody detects endogenous levels of human FXYD2
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:50-200, ELISA(peptide)1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Background : FXYD domain containing ion transport regulator 2(FXYD2) Homo sapiens 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],

Function : disease:Defects in FXYD2 are the cause of hypomagnesemia type 2 (HOMG2) [MIM:154020]; 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.,function:May be involved in forming the receptor site for cardiac glycoside binding or may modulate the transport function of the sodium ATPase.,sequence caution:Wrong choice of frame.,similarity:Belongs to the FXYD family.,subunit:Composed of three subunits: alpha (catalytic), beta and gamma.,tissue specificity:Expressed in the distal convoluted tubule in the kidney. Found on basolateral membranes of nephron epithelial cells.,

Subcellular Location : Membrane ; Single-pass type III membrane protein .

Expression : Expressed in the distal convoluted tubule in the kidney. Found on basolateral membranes of nephron epithelial cells.

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