Recombinant Human FXYD2 293 Cell Lysate

Cat. No. FXYD2-6102HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for FXYD domain containing ion transport regulator 2 (FXYD2), transcript variant a is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	FXYD2 FXYD domain containing ion transport regulator 2 [Homo sapiens]
Official Symbol	FXYD2
Synonyms	FXYD2; FXYD domain containing ion transport regulator 2; ATP1G1, HOMG2, hypomagnesemia 2, renal; sodium/potassium-transporting ATPase subunit gamma; MGC12372; sodium pump gamma chain; Na(+)/K(+) ATPase subunit gamma; ATPase, Na+/K+ transporting, gamma 1 polypeptide; HOMG2; ATP1G1;
Gene ID	486
mRNA Refseq	NM_001680
Protein Refseq	NP_001671
MIM	601814
UniProt ID	P54710
Chromosome Location	11q23
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Calcium

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	Regulation in the Cardiac Cell, organism-specific biosystem; Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem;
Function	ion channel activity; sodium:potassium-exchanging ATPase activity; transporter activity;

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