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FXYD1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20771c

Product Information

Application	WB, E
Primary Accession	O00168
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49520
Calculated MW	10441

Additional Information

Gene ID	5348
Other Names	Phospholemman, FXYD domain-containing ion transport regulator 1, FXYD1, PLM
Target/Specificity	This FXYD1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 69-101amino acids from the C-terminal region of human FXYD1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FXYD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FXYD1 (HGNC:4025)
Function	Associates with and regulates the activity of the sodium/potassium-transporting ATPase (NKA) which transports Na(+) out of the cell and K(+) into the cell. Inhibits NKA activity in its unphosphorylated state and stimulates activity when phosphorylated. Reduces glutathionylation

	of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated inhibition of ATP1B1. Contributes to female sexual development by maintaining the excitability of neurons which secrete gonadotropin-releasing hormone.
Cellular Location	Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P56513}; Single-pass type I membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:O08589}; Single-pass type I membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:O08589}. Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:O08589}. Note=Detected in the apical cell membrane in brain. In myocytes, localizes to sarcolemma, t-tubules and intercalated disks. {ECO:0000250|UniProtKB:O08589}
Tissue Location	Highest expression in skeletal muscle and heart. Moderate levels in brain, placenta, lung, liver, pancreas, uterus, bladder, prostate, small intestine and colon with mucosal lining. Very low levels in kidney, colon and small intestine without mucosa, prostate without endothelial lining, spleen, and testis

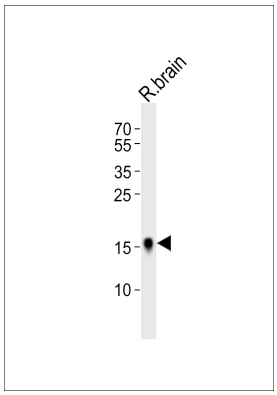
Background

May have a functional role in muscle contraction. Induces a hyperpolarization-activated chloride current when exogenously expressed.

References

Chen L.-S.K.,et al.Genomics 41:435-443(1997).
Sweadner K.J.,et al.Genomics 68:41-56(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mounsey J.P.,et al.J. Biol. Chem. 275:23362-23367(2000).
Tulloch L.B.,et al.J. Biol. Chem. 286:36020-36031(2011).

Images



Western blot analysis of lysate from rat brain tissue lysate, using FXYD1 Antibody (C-term)(Cat. #AP20771c). AP20771c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.