PLM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLM, Polyclonal Antibody
Full Product Name	PLM (N-Term) (Mouse) Rabbit pAb
Product Gene Name	anti-PLM antibody
Product Synonym Names	Phospholemman; FXYD domain-containing ion transport regulator 1; Fxyd1; Plm
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB0857
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Purity/Purification	Affinity Purified
3D Structure	ModBase 3D Structure for Q9Z239
Immunogen	This mouse PLM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of mouse PLM.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PLM antibody	Western Blot (WB)
Application Notes for anti-PLM antibody	WB: 1:1000
Related Product Information for anti-PLM antibody	MBS8551467 is an antibody targeting PLM. Also known as PLM (N-Term) (Mouse) Rabbit pAb. Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PLM 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.

ADDITIONAL DETAILS

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

NCBI GI #	259490450
NCBI GeneID	56188
NCBI Accession #	NP_062376.2
UniProt Primary Accession #	Q9Z239
UniProt Related Accession #	Q9Z239
GenBank Nucleotide #	NP_062376.2
NCBI Official Full Name	phospholemman isoform a

NCBI Official Synonym Full Names	FXYD domain-containing ion transport regulator 1
NCBI Official Symbol	Fxyd1
NCBI Official Synonym Symbols	Plm; Pml; 0610012C17Rik; 1110006M24Rik
UniProt Protein Name	Phospholemman
UniProt Synonym Protein Names	FXYD domain-containing ion transport regulator 1
UniProt Gene Name	Fxyd1
UniProt Synonym Gene Names	Plm
UniProt Entry Name	PLM_MOUSE
NCBI Protein Information	phospholemman
NCBI Summary for PLM	This gene encodes a member of the FXYD 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 protein encoded by this gene is a plasma membrane substrate for several kinases, including protein kinase A, protein kinase C, NIMA kinase, and myotonic dystrophy kinase. It is thought to form an ion channel or regulate ion channel activity and act as an accessory protein of Na,K-ATPase. Alternatively spliced transcript variants have been described. [provided by RefSeq, Sep 2009]
UniProt Comments for PLM	PLM: a protein of the FXYD family of small ion transport regulators or channels. Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes. May have a functional role in muscle contraction. Major plasma membrane substrate for PKA and PKC in several different tissues. Phosphorylated in response to insulin and adrenergic stimulation.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. Protein type: Cell surface; Channel, misc.; Membrane protein, integral Cellular Component: membrane; integral to plasma membrane; cell; plasma membrane; integral to membrane; caveola; sarcolemma Molecular Function: chloride channel activity; sodium channel regulator activity; myosin binding; ion channel activity; ATPase binding Biological Process: positive regulation of organic acid transport; cytosolic calcium ion homeostasis; transport; chloride transport; ion transport
Research Articles on PLM	**1.** It was proposed that FXYD1 plays a role in regulating AQP2 retention in apical membrane, and that this involves transfers between raft-like membrane domains in endosomes and plasma membranes.
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