

**M PLM Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5084**

**Specification**

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**M PLM Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Z239</a>
Other Accession	<a href="#">O08589</a>
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=10;M=10;Rat=10 KDa
Isotype	Rabbit IgG
Antigen Source	MOUSE

**M PLM Antibody (N-term) - Additional Information**

**Gene ID** 56188

**Other Names**

Phospholemman [Precursor]; FXYP domain-containing ion transport regulator 1; Fxyd1; Plm;

**Dilution**

WB~~1:1000

**Target/Specificity**

This Mouse PLM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of mouse PLM.

**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**

M PLM Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**M PLM Antibody (N-term) - Protein Information**

**Name** Fxyd1 {ECO:0000312|MGI:MGI:1889273}

**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 (PubMed:<a href="http://www.uniprot.org/citations/15563542" target="\_blank">15563542</a>, PubMed:<a href="http://www.uniprot.org/citations/18065526" target="\_blank">18065526</a>). Inhibits NKA activity in its unphosphorylated state and stimulates activity when phosphorylated (By similarity). Reduces glutathionylation of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated inhibition of ATP1B1 (PubMed:<a href="http://www.uniprot.org/citations/21454534" target="\_blank">21454534</a>). Contributes to female sexual development by maintaining the excitability of neurons which secrete gonadotropin-releasing hormone (PubMed:<a href="http://www.uniprot.org/citations/19187398" target="\_blank">19187398</a>).

### Cellular Location

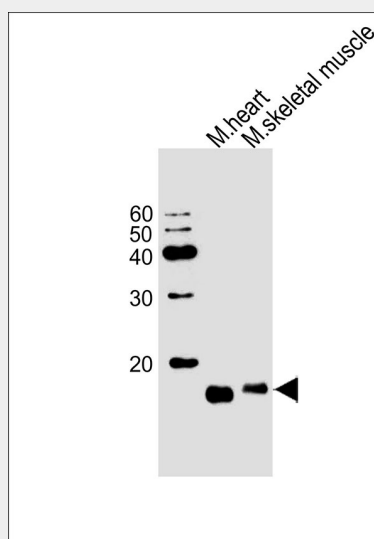
Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P56513}; Single-pass type I membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:O08589}; Single-pass type I membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:O08589}. Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:O08589}. Note=Detected in the apical cell membrane in brain. In myocytes, localizes to sarcolemma, t-tubules and intercalated disks. {ECO:0000250|UniProtKB:O08589}

### M PLM Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### M PLM Antibody (N-term) - Images



Western blot analysis of lysates from mouse heart, mouse skeletal muscle cell line (from left to right), using PLM Antibody (E1) (Cat. #AW5084). AW5084 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at

20ug per lane.

### **M PLM Antibody (N-term) - Background**

This gene encodes a member of the FXFD family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFDYD 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. Alternative splicing of this gene results in multiple transcript variants which encode the same protein.