

Phospho-mouse PLM(S83) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3287a**Specification**

Phospho-mouse PLM(S83) Antibody Blocking peptide - Product InformationPrimary Accession [Q9Z239](#)**Phospho-mouse PLM(S83) Antibody Blocking peptide - Additional Information****Gene ID** 56188**Other Names**

Phospholemman, FXYP domain-containing ion transport regulator 1, Fxyd1, Plm

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP3287a](/product/products/AP3287a) was selected from the 79~87 region of mouse Phospho-PLM-S83. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-mouse PLM(S83) Antibody Blocking peptide - 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: [15563542](http://www.uniprot.org/citations/15563542), PubMed: [18065526](http://www.uniprot.org/citations/18065526)). 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: [21454534](http://www.uniprot.org/citations/21454534)). Contributes to female sexual development by maintaining the excitability of neurons which secrete gonadotropin-releasing hormone (PubMed: [19187398](http://www.uniprot.org/citations/19187398)).

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}

Phospho-mouse PLM(S83) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-mouse PLM(S83) Antibody Blocking peptide - Images

Phospho-mouse PLM(S83) Antibody Blocking peptide - 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 PFXFD 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.