

FXYP1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20771c

Specification

FXYP1 Blocking Peptide (C-term) - Product Information

Primary Accession

[O00168](#)

Other Accession

[O08589](#), [Q9Z239](#), [Q3SZX0](#)**FXYP1 Blocking Peptide (C-term) - Additional Information****Gene ID** 5348**Other Names**

Phospholemman, FXYP domain-containing ion transport regulator 1, FXYP1, PLM

Target/Specificity

The synthetic peptide sequence is selected from aa 69-81 of HUMAN FXYP1

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.

FXYP1 Blocking Peptide (C-term) - Protein Information**Name** FXYP1 ([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

FXYD1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

FXYD1 Blocking Peptide (C-term) - Images**FXYD1 Blocking Peptide (C-term) - Background**

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

FXYD1 Blocking Peptide (C-term) - 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).