

Product Information

Monoclonal Anti-Phospho-PLM-S68
Clone 41AT858.235
produced in mouse, purified immunoglobulin

Catalog Number **SAB1300001**

Storage Temperature –20 °C

Synonyms: Anti-Phospholemannan, FXYD1

Product Description

PLM (FXYD1) is a member of a 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. FXYD2, also known as the gamma subunit of Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemannan), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. PLM may be phosphorylated by 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.

NCBI Accession number: NP_062376
Swiss Prot Accession number: Q9Z239

This monoclonal antibody is generated from mice immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S68 of mouse PLM.

Immunogen: PLM (NP_062376, 54-81)

Isotype: IgG1

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

Species reactivity: mouse

Tested applications: Immunoblotting: 1:100–1:500
ELISA (i): 1:1,000

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at –20 °C in working aliquots. Repeated freezing and thawing is not recommended. Storage in “frost-free” freezers is also not recommended. For continuous use, store at 2–8 °C for up to one month. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

SC,BD,MAM 06/10-1

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.