

PLA2G12A Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1927a

Product Information

Application WB, FC, E **Primary Accession** Q9BZM1 Reactivity Human Host Mouse Clonality Monoclonal **Clone Names** 7C7C9 Isotype IgG1 21067 **Calculated MW**

Description Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from

phospholipids for production of eicosanoids and exert a variety of physiologic and pathologic effects. Group XII sPLA2s, such as PLA2G12A, have relatively low specific activity and are structurally and functionally distinct from other

sPLA2s

Immunogen Purified recombinant fragment of human PLA2G12A (AA: 21-189) expressed in

E. Coli.

Formulation Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID 81579

Other Names Group XIIA secretory phospholipase A2, GXII sPLA2, sPLA2-XII, 3.1.1.4,

Phosphatidylcholine 2-acylhydrolase 12A, PLA2G12A, PLA2G12

Dilution WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000

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

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions PLA2G12A Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name PLA2G12A

Synonyms PLA2G12

Function PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in

3-sn-phosphoglycerides. Does not exhibit detectable activity toward

sn-2-arachidonoyl- or linoleoyl-phosphatidylcholine or

-phosphatidylethanolamine.

Cellular Location Secreted. Cytoplasm

Tissue Location Abundantly expressed in heart, skeletal muscle, kidney, liver and pancreas

Background

The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.;

References

1. J Biol Chem. 2003 Mar 21;278(12):10657-67. 2. Biochemistry. 2003 Oct 7;42(39):11494-503.

Images

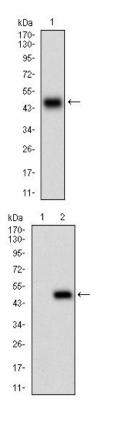
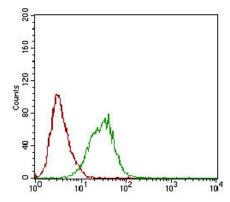


Figure 1: Western blot analysis using PLA2G12A mAb against human PLA2G12A (AA: 21-189) recombinant protein. (Expected MW is 44.5 kDa)

Figure 2: Western blot analysis using PLA2G12A mAb against HEK293 (1) and PLA2G12A (AA: 21-189)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Flow cytometric analysis of Hela cells using PLA2G12A mouse mAb (green) and negative control (red).



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