

PLA2G12A Polyclonal antibody

Catalog Number: 16009-1-AP

4 Publications

Basic Information

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|---|---|---|
| Catalog Number: 16009-1-AP | GenBank Accession Number: BC017218 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 300 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 81579 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200 |
| Source: Rabbit | Full Name: phospholipase A2, group XIIA | |
| Isotype: IgG | Calculated MW: 189 aa, 21 kDa | |
| Immunogen Catalog Number: AG8722 | Observed MW: 21-24 kDa | |

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse skeletal muscle tissue, HEK-293 cells, mouse heart tissue, mouse kidney tissue

IHC : human colon cancer tissue, human skeletal muscle tissue

IF : HEK-293 cells,

Background Information

PLA2G12A (or PLA2G12) gene encodes group XII secreted phospholipase A2 (sPLA2) which catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Cellular arachidonate (AA) release and prostaglandin (PG) production is regulated by sPLA(2)s, groups III and XII. Group XII sPLA2 have relatively low specific activity and are structurally and functionally distinct from other sPLA2s. Cells transfected with group XII sPLA(2) exhibited abnormal morphology, suggesting a unique functional aspect of this enzyme. Role of sPLA2s as potential tumour biomarkers and therapeutic targets for various cancers have been reported.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------------|-----------|----------------------|-------------|
| Alexandros Nicolaou | 28917158 | Atherosclerosis | IHC, WB |
| Tao Li | 30402154 | Exp Ther Med | WB |
| Koji Suzuki | 25132377 | J Atheroscler Thromb | IHC |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

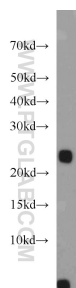
For technical support and original validation data for this product please contact:

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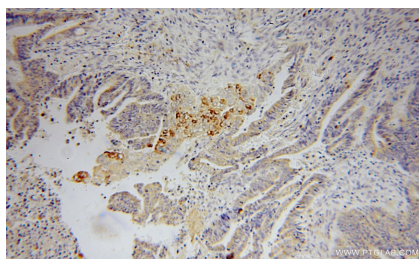
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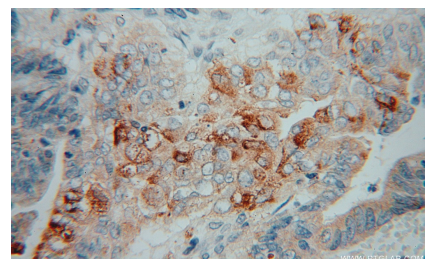
Selected Validation Data



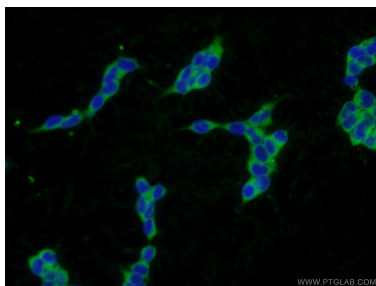
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 16009-1-AP (PLA2G12A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 16009-1-AP (PLA2G12A antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 16009-1-AP (PLA2G12A antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 16009-1-AP (PLA2G12A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).