

PLA2G4E Polyclonal antibody

Catalog Number: 29990-1-AP

Basic Information

Catalog Number:

29990-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32314

GenBank Accession Number:

BC101584

GeneID (NCBI):

123745

Full Name:

phospholipase A2, group IVE

Calculated MW:

868 aa, 99 kDa

Observed MW:

98 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

WB : A431 cells, K-562 cells, NIH/3T3 cells

IF/ICC : A431 cells,

Background Information

PLA2G4E (Phospholipase A2 group IVE), also known as cPLA2-epsilon. Calcium-dependent N-acyltransferase is involved in the biosynthesis of N-acyl ethanolamines (NAEs) in the brain (PMID:29447909). Transfers the sn-1 fatty acyl chain of phosphatidylcholine (fatty acyl donor) to the amine group of phosphatidylethanolamine (fatty acyl acceptor) to generate N-acyl phosphatidylethanolamine (NAPE). Similarly can use plasmenylethanolamine as a fatty acyl acceptor to form N-acyl plasmenylethanolamine (N-Acyl-PlsEt). Both NAPE and N-Acyl-PlsEt can serve as precursors of bioactive NAEs like N-arachidonoyl phosphatidylethanolamine also called anandamide (PMID:29447909; 30517655).

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

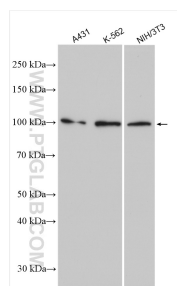
For technical support and original validation data for this product please contact:

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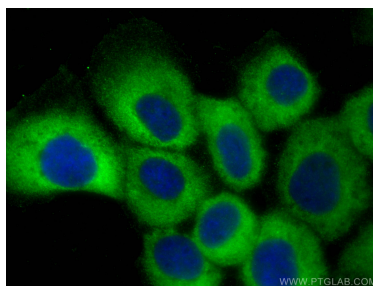
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29990-1-AP (PLA2G4E antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using PLA2G4E antibody (29990-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).