

For Research Use Only

# PLA2G4E Polyclonal antibody

Catalog Number: 29990-1-AP



## Basic Information

<b>Catalog Number:</b> 29990-1-AP	<b>GenBank Accession Number:</b> BC101584	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 700 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 123745	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> phospholipase A2, group IVE	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 868 aa, 99 kDa	
<b>Immunogen Catalog Number:</b> AG32314	<b>Observed MW:</b> 98 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB: A431 cells, K-562 cells, NIH/3T3 cells IF: A431 cells,
<b>Species Specificity:</b> Human, mouse, rat	

## 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

\*\*\* 20ul sizes contain 0.1% BSA

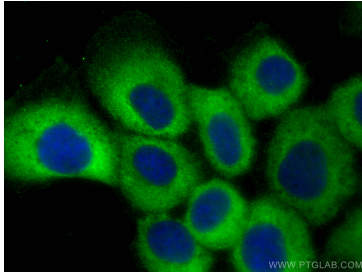
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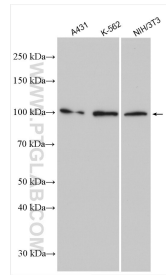
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## Selected Validation Data



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).



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.