

For Research Use Only

PLA2G4A Polyclonal antibody

Catalog Number: 28924-1-AP



Basic Information

Catalog Number: 28924-1-AP	GenBank Accession Number: BC114340	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 µg/ml by Nanodrop;	GeneID (NCBI): 5321	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: phospholipase A2, group IVA (cytosolic, calcium-dependent)	
Isotype: IgG	Calculated MW: 749 aa, 85 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Species Specificity: Human	WB : HeLa cells, IHC : human colon cancer tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PLA2G4A, also named cPLA2 (cytosolic phospholipase A2), is a highly conserved and widely expressed enzyme that can promote lipid mediator production. It is present in the cytosol of resting cells and upon activation by a variety of agonists, undergoes Ca⁺⁺-directed translocation to perinuclear membranes. PLA2G4A plays a major role in membrane lipid remodeling and biosynthesis of lipid mediators of the inflammatory response. It has been reported that the activity and expression levels of PLA2G4A are upregulated in several neurodegenerative diseases. It is a 749 amino acid, 85 kDa protein that migrates at 100-112 kDa in polyacrylamide gels (PMID: 17459165).

Storage

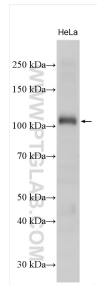
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

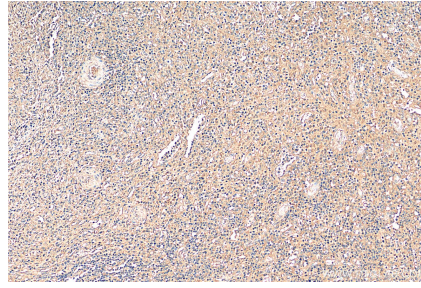
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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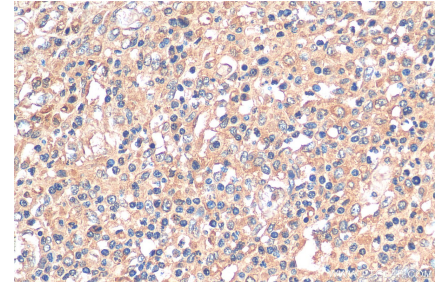
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 28924-1-AP (PLA2G4A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 28924-1-AP (PLA2G4A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 28924-1-AP (PLA2G4A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).