

PLA2G2D Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11151B

Specification

PLA2G2D Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O9UNK4
Other Accession	NP_036532.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	16546
Antigen Region	105-131

PLA2G2D Antibody (C-term) - Additional Information

Gene ID 26279

Other Names

Group IID secretory phospholipase A2, GIID sPLA2, sPLA2-IID, PLA2IID, Phosphatidylcholine 2-acylhydrolase 2D, Secretory-type PLA, stroma-associated homolog, PLA2G2D, SPLASH

Target/Specificity

This PLA2G2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 105-131 amino acids from the C-terminal region of human PLA2G2D.

Dilution

WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PLA2G2D Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLA2G2D Antibody (C-term) - Protein Information

Name PLA2G2D

Synonyms SPLASH

Function Secretory calcium-dependent phospholipase A2 that primarily targets extracellular lipids, exerting anti-inflammatory and immunosuppressive functions (PubMed:[10455175](#), PubMed:[10681567](#)). Hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of phospholipids (phospholipase A2 activity) with preference for phosphatidylethanolamines and phosphatidylglycerols over phosphatidylcholines (PubMed:[10455175](#)). In draining lymph nodes, selectively hydrolyzes diacyl and alkenyl forms of phosphatidylethanolamines, releasing omega-3 polyunsaturated fatty acids (PUFAs) such as eicosapentaenoate and docosahexaenoate that are precursors of the anti-inflammatory lipid mediators, resolvins (By similarity). During the resolution phase of acute inflammation drives docosahexaenoate-derived resolvin D1 synthesis, which suppresses dendritic cell activation and T-helper 1 immune response (By similarity). May act in an autocrine and paracrine manner (By similarity). Via a mechanism independent of its catalytic activity, promotes differentiation of regulatory T cells (Tregs) and participates in the maintenance of immune tolerance (By similarity). May contribute to lipid remodeling of cellular membranes and generation of lipid mediators involved in pathogen clearance. Displays bactericidal activity against Gram-positive bacteria by directly hydrolyzing phospholipids of the bacterial membrane (By similarity).

Cellular Location
Secreted.

Tissue Location
Highly expressed in pancreas and spleen and less abundantly in colon, thymus, placenta, small intestine, and prostate

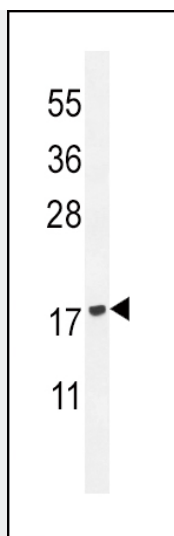
PLA2G2D Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

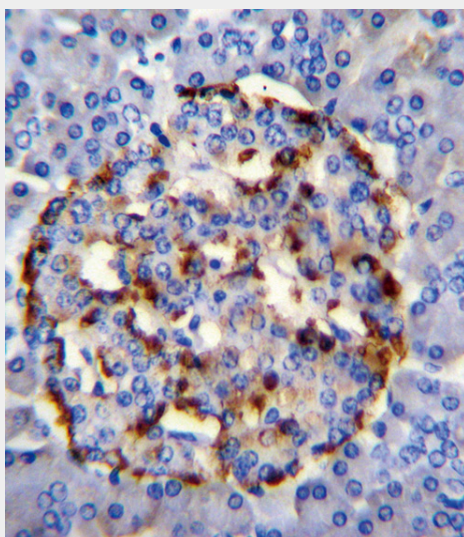
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PLA2G2D Antibody (C-term) - Images

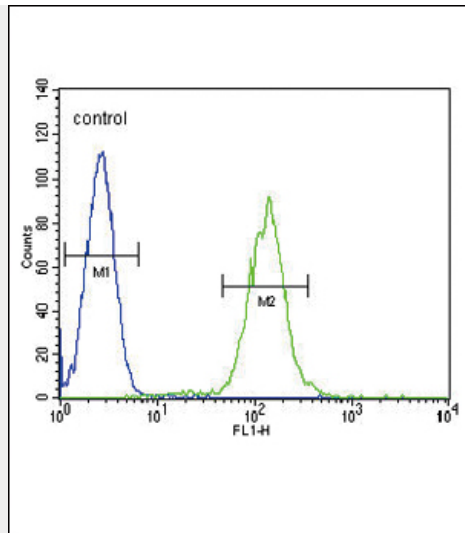




PLA2G2D Antibody (C-term) (Cat. #AP11151b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the PLA2G2D antibody detected the PLA2G2D protein (arrow).



PLA2G2D Antibody (C-term) (Cat. #AP11151b) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PLA2G2D Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PLA2G2D Antibody (C-term) (Cat. #AP11151b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PLA2G2D Antibody (C-term) - Background

Transposase-derived protein that may have nuclease activity (Potential). Does not have transposase activity.

PLA2G2D Antibody (C-term) - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Segat, L., et al. Vaccine 28(10):2201-2206(2010)
Igarashi, A., et al. Respiration 78(3):312-321(2009)
Lessig, J., et al. Asian J. Androl. 10(6):829-836(2008)
Lindbom, J., et al. Inflammation 29 (2-3), 108-117 (2005) :