

Rabbit anti-Human PLA2G2D Polyclonal Antibody | anti-PLA2G2D antibody

PLA2G2D Antibody (C-term)

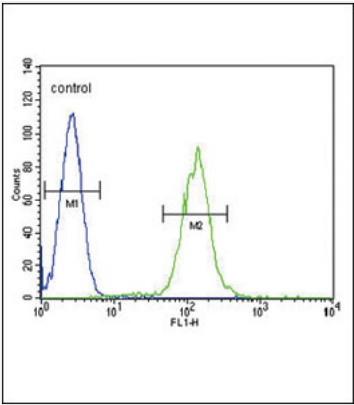
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28718	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

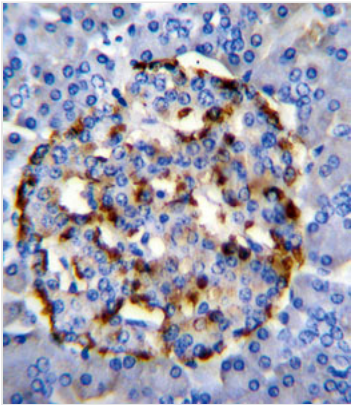
PLA2G2D; Polyclonal Antibody; PLA2G2D Antibody (C-term); Group IID secretory phospholipase A2; GIID sPLA2; sPLA2-IID; PLA2IID; Phosphatidylcholine 2-acylhydrolase 2D; Secretory-type PLA; stroma-associated homolog; SPLASH; anti-PLA2G2D antibody

PRODUCT SPECIFICATIONS

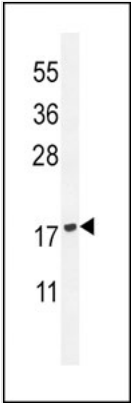
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PLA2G2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 105-131 amino acids from the C-terminal region of human PLA2G2D.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	105-131
Sequence Length	62
Applicable Applications for anti-PLA2G2D antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB~~1:1000 IHC-P~~1:10~50 FC~~1:10~50
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
Preparation and 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.



FCM (Flow Cytometry)
PLA2G2D Antibody (C-term) 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.



IHC (Immunohistochemistry)
PLA2G2D Antibody (C-term) 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.



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

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G2D antibody	Transposase-derived protein that may have nuclease activity (Potential). Does not have transposase activity.
Product Categories/Family for anti-PLA2G2D antibody	Cardiovascular; Metabolism; Signal transduction
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) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	425854812
NCBI GeneID	26279
NCBI Accession #	NP_001258743.1; NP_036532.1
NCBI GenBank Nucleotide #	NM_001271814.1
UniProt Accession #	Q9UNK4; Q9UK01; A8K2Z1; B1AEL9

Molecular Weight	Calculated MW: 16546
NCBI Official Full Name	group IID secretory phospholipase A2 isoform 2
NCBI Official Synonym Full Names	phospholipase A2, group IID
NCBI Official Symbol	PLA2G2D
NCBI Official Synonym Symbols	SPLASH; sPLA2S; PLA2IID; sPLA2-IID
NCBI Protein Information	group IID secretory phospholipase A2
UniProt Protein Name	Group IID secretory phospholipase A2
UniProt Gene Name	PLA2G2D
UniProt Synonym Gene Names	SPLASH; GIID sPLA2; sPLA2-IID
UniProt Entry Name	PA2GD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pla2g2d-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28718>