

Rabbit anti-Human PLA2G7 Polyclonal Antibody | anti-PLA2G7 antibody

PLA2G7 Antibody (Center)

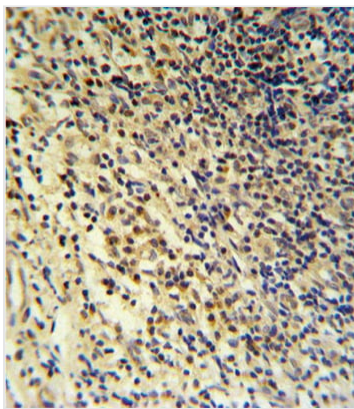
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28698	Rabbit	Human	Immunohistochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

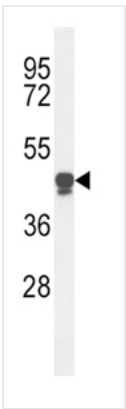
PLA2G7; Polyclonal Antibody; PLA2G7 Antibody (Center); Platelet-activating factor acetylhydrolase; PAF acetylhydrolase; 1-alkyl-2-acetyl-glycerophosphocholine esterase; 2-acetyl-1-alkyl-glycerophosphocholine esterase; Group-VIIA phospholipase A2; gVIIA-PLA2; LDL-associated phospholipase A2; LDL-PLA(2); PAF 2-acylhydrolase; PAFAH; anti-PLA2G7 antibody

PRODUCT SPECIFICATIONS

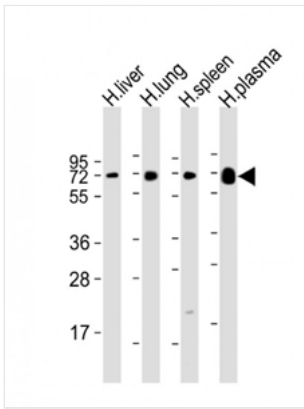
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PLA2G7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 200-228 amino acids from the Central region of human PLA2G7.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal 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	200-228
Sequence Length	441
Applicable Applications for anti-PLA2G7 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Application Notes	WB~~1:1000 IHC-P~~1:10~50 FC~~1:25
Function	Modulates the action of platelet-activating factor (PAF) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. Has a specificity for substrates with a short residue at the sn-2 position. It is inactive against long-chain phospholipids.
Cellular Location	Secreted, extracellular space.
Tissue Location	Plasma.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



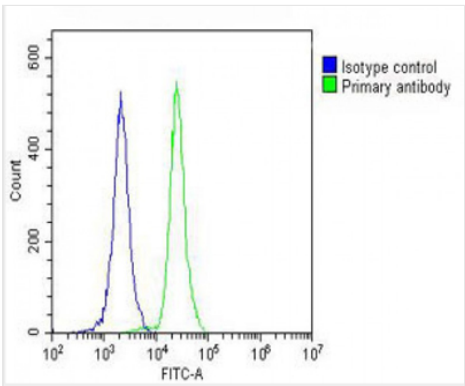
IHC (Immunohistochemistry)
PLA2G7 Antibody (Center) (Cat. #AAA28698)IHC analysis in formalin fixed and paraffin embedded tonsil followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PLA2G7 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



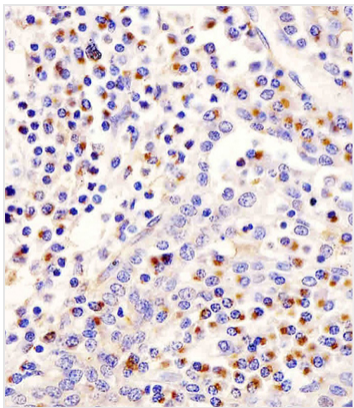
WB (Western Blot)
Western blot analysis of PLA2G7 Antibody (Center) (Cat. #AAA28698) in HL-60 cell line lysates (35ug/lane). PLA2G7 (arrow) was detected using the purified Pab.



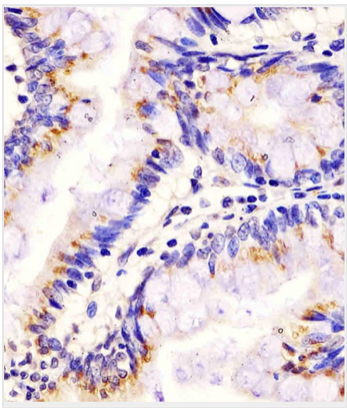
WB (Western Blot)
All lanes : Anti-PLA2G7 Antibody (Center) at 1:2000 dilution Lane 1: human liver lysate Lane 2: human lung lysate Lane 3: human spleen lysate Lane 4: human plasma lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Application Data
Overlay histogram showing HL-60 cells stained with AAA28698 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA28698, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



IHC (Immunohistochemistry-Paraffin)
staining PLA2G7 in human tonsiltissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
Staining PLA2G7 in human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G7 antibody	The protein encoded by this gene is a secreted enzyme that catalyzes the degradation of platelet-activating factor to biologically inactive products. Defects in this gene are a cause of platelet-activating factor acetylhydrolase deficiency.
Product Categories/Family for anti-PLA2G7 antibody	Cardiovascular; Immunology
References	Fan, P., et al. Hum. Reprod. 25(5):1288-1294(2010) Paik, J.K., et al. Clin. Chim. Acta 411 (7-8), 486-493 (2010) Meng, X., et al. Psychiatry Res 175 (1-2), 186-187 (2010) McGeachie, M., et al. Circulation 120(24):2448-2454(2009) Cojocaru, I.M., et al. Rom J Intern Med 47(1):61-65(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	270133071
NCBI GeneID	7941
NCBI Accession #	NP_001161829.1; NP_005075.3
NCBI GenBank Nucleotide #	NM_001168357.1
UniProt Accession #	Q13093; Q15692; Q5VTT1; Q8IVA2; A5HTT5
NCBI Official Full Name	platelet-activating factor acetylhydrolase
NCBI Official Synonym Full Names	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)
NCBI Official Symbol	PLA2G7
NCBI Official Synonym Symbols	PAFAD; PAFAH; LP-PLA2; LDL-PLA2
NCBI Protein Information	platelet-activating factor acetylhydrolase
UniProt Protein Name	Platelet-activating factor acetylhydrolase
UniProt Gene Name	PLA2G7
UniProt Synonym Gene Names	PAFAH; PAF acetylhydrolase; gVIIA-PLA2; LDL-PLA(2)
UniProt Entry Name	PAFA_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/pla2g7-antibody-immunohistochemistry-flow-cytometry-western-blot-elisa/28698>