SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PLA2G7 antibody

Catalog Number: SL1451R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PLA2G7
Immunogen:	KLH conjugated synthetic peptide derived from human PAFAH: 301-441/441
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog)
Predicted MW.:	48kDa
Subcellular Location:	Extracellular matrix Secretory protein
Background:	This gene encodes platelet-activating factor acetylhydrolase isoform 2, a single-subunit intracellular enzyme that catalyzes the removal of the acetyl group at the SN-2 position of platelet-activating factor (identified as 1-O-alkyl-2-acetyl -sn-glyceryl-3-phosphorylcholine). However, this lipase exhibits a broader substrate specificity than simply platelet activating factor. Two other isoforms of intracellular platelet-activating factor acetylhydrolase exist, and both are multi-subunit enzymes. Additionally, there is a single-subunit serum isoform of this enzyme. **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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	Subcellular Location: Secreted, extracellular space. **Tissue Specificity:** Plasma. DISEASE: Platelet-activating factor acetylhydrolase deficiency (PAFAD) [MIM:614278]: An enzymatic deficiency that results in exacerbated bodily response to inflammatory agents. It can be associated with several disease states including inflammatory gastrointestinal disorders, asthma and atopy. Asthmatic individuals with PAFAD may manifest aggravated respiratory symptoms. Note=The disease is caused by mutations affecting the gene represented in this entry. Asthma (ASTHMA) [MIM:600807]: The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with weezing due to spasmodic contraction of the bronchi. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. Atopic hypersensitivity (ATOPY) [MIM:147050]: A condition characterized by predisposition to develop hypersensitivity reactions. Atopic individuals can develop eczema, allergic rhinitis and allergic asthma. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. **Similarity:** Belongs to the AB hydrolase superfamily. Lipase family. **Database links:** **Entrez Gene:** 7941 Human Omim: 601690 Human **SwissProt:** Q13093 Human Lipoprotein-associated phospholipase A2 (Lp-PLA2), also called plasma platelet-activating factor acetylhydrolase, is a key enzyme that mediates inflammation and atherosclerosis induced by oxidized low-density lipoprotein. Lipoprotein-Related phospholipase A2 is a member of the phospholipase A2 superfamily, is synthesized and secreted by mature macrophages and lymphocytes, mainly binds to low-density lipoprotein, can hydrolyze oxidized lecithin on low-density lipoprotein, generating the pro-inflammatory substances lysophosphatidylcholine and oxidized free fatty acids, promoting the formation of atherosclerosis, Studies suggest that inhibiting lipoprotein-associated phospholipase A2 activity may have an anti-atherosclerotic effect.

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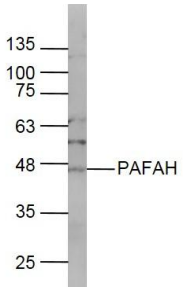
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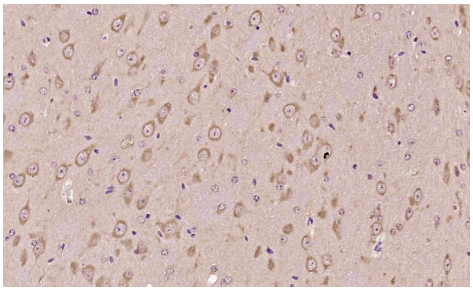
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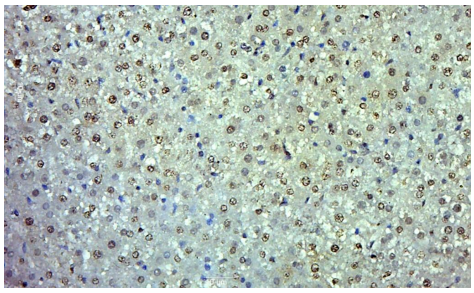
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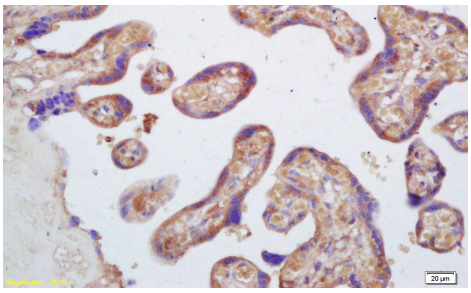


Sample:
Lung (Rat) Lysate at 40 ug
Primary: Anti-PAFAH (SL1451R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 48 kD
Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PAFAH) Polyclonal Antibody, Unconjugated (SL1451R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.





Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PAFAH) Polyclonal Antibody, Unconjugated (SL1451R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-PAFAH2/Lp-PLA2 Polyclonal Antibody, Unconjugated(SL1451R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

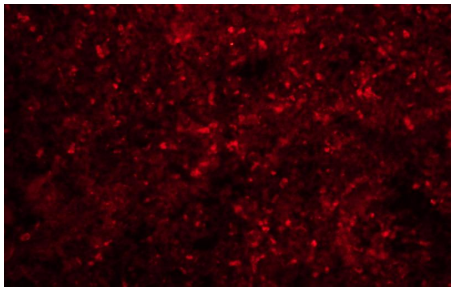
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Tissue/cell: rat spleen tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-PAFAH2 Polyclonal Antibody, Unconjugated(SL1451R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

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