SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-PAFAH/AF647 Conjugated antibody

Catalog Number: SL1451R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PAFAH/AF647
Immunogen:	KLH conjugated synthetic peptide derived from humna PAFAH C-terminus
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog)
Background:	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. **Subcellular Location:** Secreted, extracellular space. **Tissue Specificity:** Plasma. DISEASE: Platelet-activating factor acetylhydrolase deficiency (PAFAD)

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

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