

**bs-1451R****[ Primary Antibody ]**

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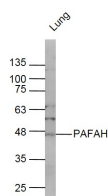
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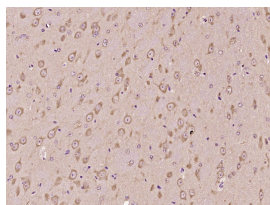
400-901-9800

**PLA2G7 Rabbit pAb****— DATASHEET —**

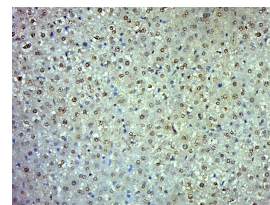
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Dog)  <b>Predicted MW.:</b> 48 kDa  <b>Subcellular Location:</b> Secreted ,Extracellular matrix
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 7941	<b>SWISS:</b> Q13093	
<b>Target:</b> PLA2G7		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human PAFAH: 301-441/441.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> 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-glycerol-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.		

**— VALIDATION IMAGES —**

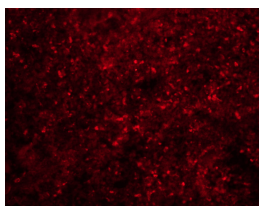
Sample: Lung (Rat) Lysate at 40 ug Primary: Anti-PAFAH (bs-1451R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



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 (bs-1451R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and 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 (bs-1451R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat spleen tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;

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

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PAFAH2 Polyclonal Antibody, Unconjugated(bs-1451R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

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## — SELECTED CITATIONS —

- **[IF=4.8]** Yangyang Tao. et al. Melatonin suppresses atherosclerosis by ferroptosis inhibition via activating NRF2 pathway. FASEB J. 2024 May;38(10):e23678 WB,IF ;Mouse. 38780199
- **[IF=3.71]** Rosing, Katharina, et al. Everolimus therapy is associated with reduced lipoprotein-associated phospholipase A2 (Lp-Pla2) activity and oxidative stress in heart transplant recipients. Atherosclerosis. 2013 Sep;230(1):164-70. WB ;="Human". 23958269
- **[IF=3.6]** Zhiyu Li. et al. Metformin suppresses metabolic dysfunction-associated fatty liver disease by ferroptosis and apoptosis via activation of oxidative stress. FREE RADICAL RES. 2024 Oct 18 IF,WB ;Human. 39422606
- **[IF=2.93]** Wang, Gangqi, et al. "Nitro-oleic acid downregulates lipoprotein-associated phospholipase A2 expression via the p42/p44 MAPK and NF [kgr] B pathways." Scientific Reports 4 (2014). WB ;="Human". 24809325
- **[IF=2.1]** Han et al. Apolipoprotein CIII regulates lipoprotein-associated phospholipase A2 expression via the MAPK and NFkB pathways. (2015) Biol.Open. 4:661-5 WB ;Porcine. 25836672