

**bs-3252R****[ Primary Antibody ]****phospho-ALOX5 (Ser663) Rabbit pAb****Bioss**  
**ANTIBODIES**

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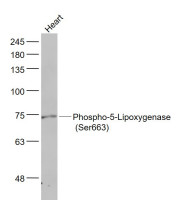
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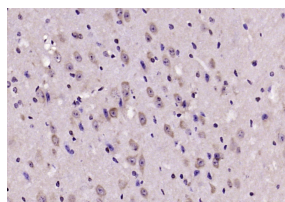
400-901-9800

**— DATASHEET —**

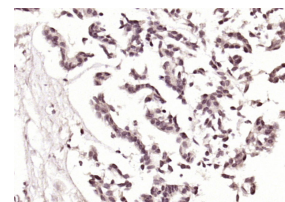
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 25290 <b>Target:</b> ALOX5 (Ser663) <b>Immunogen:</b> KLH conjugated synthesised phosphopeptide derived from rat 5-Lipoxygenase around the phosphorylation site of Ser663: YL(p-S)PD. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</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 a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined.	<b>Isotype:</b> IgG <b>SWISS:</b> P12527	<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: Rabbit, Pig, Cow, Dog) <b>Predicted MW.:</b> 78 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Sample: Heart (Rat) Lysate at 40 ug Primary: Anti- Phospho-5-Lipoxygenase (Ser663) (bs-3252R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: 75 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 (Phospho-5-Lipoxygenase (Ser663)) Polyclonal Antibody, Unconjugated (bs-3252R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); 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 (Phospho-5-Lipoxygenase (Ser663)) Polyclonal Antibody, Unconjugated (bs-3252R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=2.866]** Xuan, Wenting. et al. Propofol Protects Against Erastin-Induced Ferroptosis in HT-22 Cells. J MOL NEUROSCI. 2022 Jun;;1-12 IF, WB ; Mouse. 35727524

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