

**bs-9512R****[ Primary Antibody ]****Bioss**  
**ANTIBODIES**

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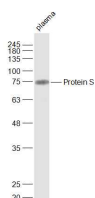
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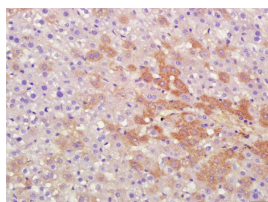
400-901-9800

**Protein S Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 5627	<b>SWISS:</b> P07225	<b>IHC-F</b> (1:100-500)
<b>Target:</b> Protein S		<b>IF</b> (1:50-200)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Protein S/PROS: 221-320/676.		<b>Reactivity:</b> Mouse, Rat (predicted: Human, Sheep, Cow, Horse)
<b>Purification:</b> affinity purified by Protein A		<b>Predicted MW.:</b> 71 kDa
<b>Concentration:</b> 1mg/ml		<b>Subcellular Location:</b> Secreted
<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> Protein S (PROS) is a vitamin K-dependent plasma protein that inhibits blood clotting by serving as a cofactor for activated protein C (APC) and facilitates clearance of early apoptotic cells. In the plasma, circulating Protein S becomes inactive upon complexing with C4b-binding protein (C4BP); 60-70% of Protein S circulates in complex with C4BP. Calcium-dependent association of C4BP-Protein S with apoptotic cells influences the regulation of complement activation. Protein S has APC-independent anticoagulant activity through direct inhibition of prothrombin activation via interactions with Factor X A, Factor V A and phospholipids. Autosomal dominant Protein S deficiency (levels 15 to 37% of normal) correlates with severe recurrent venous thrombosis.		

**— VALIDATION IMAGES —**

Sample: Plasma (Mouse) Lysate at 40 ug  
 Primary: Anti-Protein S (bs-9512R) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-  
 Rabbit IgG at 1/20000 dilution Predicted band  
 size: 71 kD Observed band size: 75 kD



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 (Protein S) Polyclonal Antibody,  
 Unconjugated (bs-9512R) at 1:400 overnight at  
 4°C, followed by a conjugated secondary  
 (sp-0023) for 20 minutes and DAB staining.