

**bs-3989R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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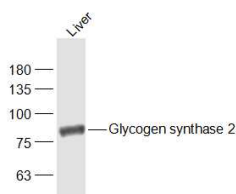
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**Glycogen synthase 2 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 2998	<b>SWISS:</b> P54840	
<b>Target:</b> Glycogen synthase 2		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Glycogen synthase 2: 621-703/703.		
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Rabbit, Pig, Dog, Horse)
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 81 kDa
<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>Subcellular Location:</b> Cytoplasm
<b>Background:</b> Glycogen synthase catalyzes the rate-limiting step in glycogen synthesis. Its activity is regulated by a complex phosphorylation-dephosphorylation mechanism and by allosteric stimulators and inhibitors. Two isozymes of synthase, a skeletal muscle type (Glycogen synthase 1 - GYS1) and a liver type (Glycogen synthase 2 - GYS2), have been identified.		

**— VALIDATION IMAGES —**

Sample: Liver (Mouse) Lysate at 40 ug Primary:  
Anti-Glycogen synthase 2 (bs-3989R) at 1/1000  
dilution Secondary: IRDye800CW Goat Anti-  
Rabbit IgG at 1/20000 dilution Predicted band  
size: 81 kD Observed band size: 81 kD

**— SELECTED CITATIONS —**

- **[IF=0]** Scheffler et al. Gain of function AMP-activated protein kinase  $\gamma$ 3 mutation (AMPK $\gamma$ 3R200Q) in pig muscle increases glycogen storage regardless of AMPK activation. (2016) Physiol.Re. 4 WB ;Pig. 27302990