

**bs-13398R****[ Primary Antibody ]****GSTA1 Rabbit pAb****Bioss**  
**ANTIBODIES**

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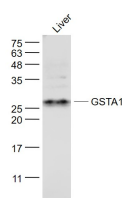
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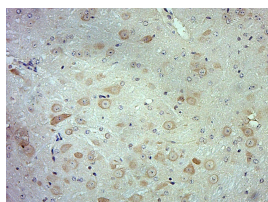
400-901-9800

**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> Mouse, Rat (predicted: Human, Rabbit, Dog, Horse)  <b>Predicted MW.:</b> 25 kDa  <b>Subcellular Location:</b> Cytoplasm
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 2938	<b>SWISS:</b> P08263	
<b>Target:</b> GSTA1		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human GSTA1/Glutathione S Transferase alpha: 51-150/222.		
<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> Members of the glutathione S-transferase (GST) family of proteins function in the detoxification of xenobiotics to protect cells against toxicant-induced damage. GSTs are differentially expressed in lung, liver and kidney tissue. Three isoforms, GSTA1-1, GSTA1-4 and GSTM1, localize to the mitochondria in addition to the cytoplasm. In normal and transformed cells, the oncoprotein Myb transcriptionally upregulates GSTM1. This isoform shows high specific activity for aflatoxin B1 epoxide conjugation, suggesting an important role for this interaction in the defense against both chemical and oxidative stress. The C-terminal domain of GSTA1 may form a component of the hydrophobic substrate-binding site, but in contrast appears not to be directly involved in GSH binding and is not absolutely essential for catalytic activity.		

**VALIDATION IMAGES**

Sample: Liver (Rat) Lysate at 40 ug Primary: Anti-GSTA1 (bs-13398R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 27 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 (GSTA1) Polyclonal Antibody, Unconjugated (bs-13398R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

**SELECTED CITATIONS**

- **[IF=1.718]** Efe Saygin. et al. Glutathione S-transferase expression in benign and malignant eyelid tumors. 2021 Oct 26 IHC ;Human. 34696641
- **[IF=0.4]** Arzu Kaya Kocdogan. et al. INVESTIGATION OF GST AND DRUG RESISTANCE PROTEIN EXPRESSIONS IN RELATION TO CHEMOTHERAPY IN BREAST CANCER. HEALTH PROBL CIVILIZ. 2024 May;18(1): IHC ;Human. 10.5114/hpc.2024.139094

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