

Anti-GSTA1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Horse,Rabbit)
Molecular Weight:	Theoretical: 25 kDa. Actual: 27 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GSTA1) Polyclonal Antibody, Unconjugated (TMAB-06822) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.</p> <p>2. Sample: Liver (Rat) Lysate at 40 µg Primary: Anti-GSTA1 (TMAB-06822) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 27 kD</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GSTA1/Glutathione S Transferase alpha
Antigen Species:	Human
Gene ID:	2938
Uniprot ID:	P08263

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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