

Product datasheet for **TA308025**

GSTA2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human (Predicted: Monkey, Pig)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 1 and 196 of GSTA2 (Uniprot ID#P09210)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	glutathione S-transferase alpha 2
Database Link:	NP_000837 Entrez Gene 709037 Monkey Entrez Gene 2939 Human P09210



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Background:

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. [provided by RefSeq]

Synonyms:

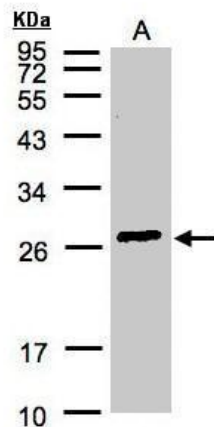
GST2; GSTA2-2; GTA2; GTH2

Note:

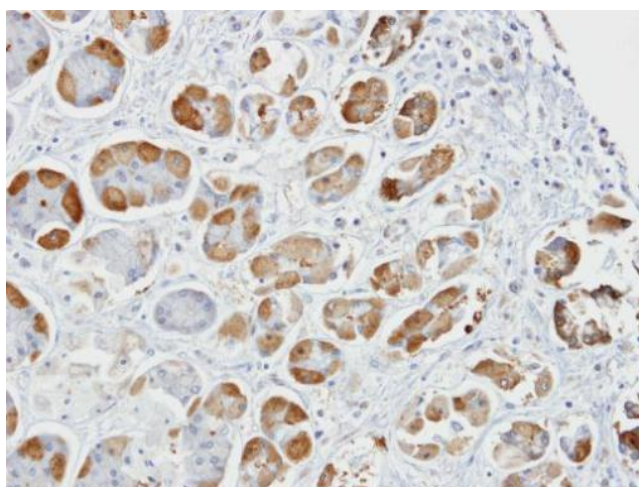
Seq homology of immunogen across species: Monkey (92%), Pig (82%)

Protein Pathways:

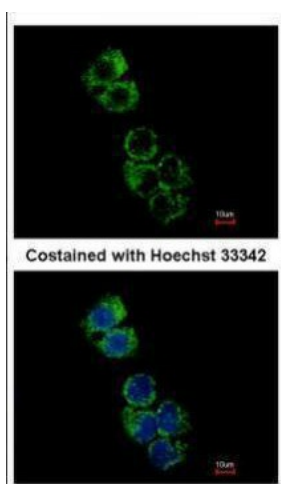
Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:

Sample (30 ug of whole cell lysate). A:Hep G2.
12% SDS PAGE. TA308025 diluted at 1:3000



Immunohistochemical analysis of paraffin-embedded Stomach, using GSTA2 (TA308025) antibody at 1:100 dilution.



Immunofluorescence analysis of methanol-fixed Hep G2, using GSTA2 (TA308025) antibody at 1:500 dilution.