

GSTA2 Polyclonal Antibody

Catalog NumberPA5-21670

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Rat
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Dilution *	
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 196 of GSTA2 (Uniprot ID#P09210)	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
		Western Blot (WB)	1:500-1:3,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HepG2. Predicted reactivity: Pig (82%), Rhesus Monkey (92%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

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.

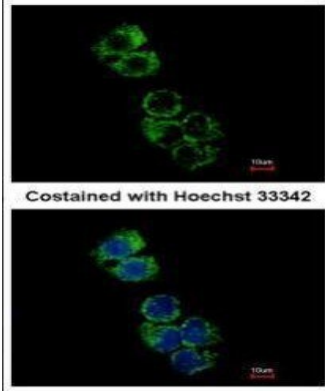
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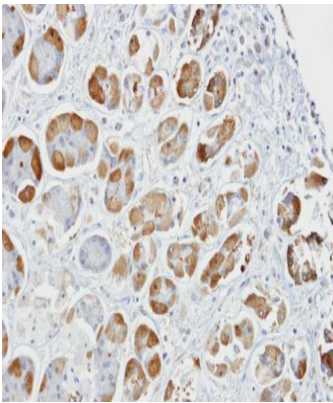
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Product Images For GSTA2 Polyclonal Antibody



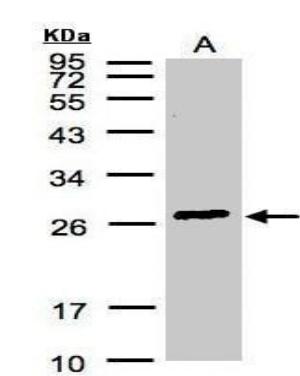
GSTA2 Antibody (PA5-21670) in ICC/IF

Immunofluorescence analysis of methanol-fixed Hep G2, using GSTA1/GSTA2/GSTA3 antibody (Product # PA5-21670) at 1:500 dilution.



GSTA2 Antibody (PA5-21670) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human stomach, using GSTA1/GSTA2/GSTA3 antibody (Product # PA5-21670) at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



GSTA2 Antibody (PA5-21670) in WB

Western Blot using GSTA2 Polyclonal Antibody (Product # PA5-21670). Sample (30 μg of whole cell lysate). A: Hep G2. 12% SDS PAGE. GSTA2 Polyclonal Antibody (Product # PA5-21670) diluted at 1:3,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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