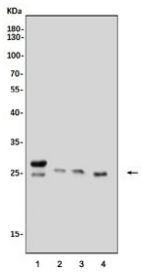
Glutathione S-transferase A4 Antibody / Gsta4 (RQ6382)

Catalog No.	Formulation	Size
RQ6382	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P24472
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Glutathione S-transferase A4 antibody is available for research use only.



Western blot testing of 1) rat liver, 2) mouse brain, 3) mouse liver and 4) mouse lung tissue lysate with Glutathione S-transferase A4 antibody. Predicted molecular weight ~26 kDa.

Description

Glutathione S-transferase A4, also known as GSTA4, is an enzyme which in humans is encoded by the GSTA4 gene. 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 (hepatocytes) and kidney (proximal tubules). 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.

Application Notes

Optimal dilution of the Glutathione S-transferase A4 antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids E29-F222) was used as the immunogen for the Glutathione S-transferase A4 antibody.

Storage

After reconstitution, the Glutathione S-transferase A4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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