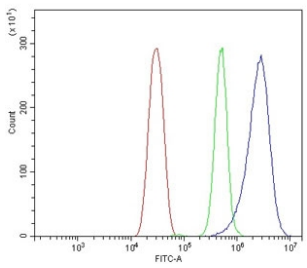
Gsta3 Antibody (RQ6132)

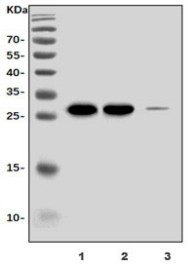
Catalog No.	Formulation	Size
RQ6132	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P30115
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Gsta3 antibody is available for research use only.



Flow cytometry testing of mouse HEPA1-6 cells with Gsta3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Gsta3 antibody.



Western blot testing of rat 1) testis, 2) ovary and 3) brain lysate with Gsta3 antibody. Predicted molecular weight ~25 kDa.

Description

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. 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-tranferase belonging to the alpha class genes that are located in a cluster mapped to chromosome 6. Genes of the alpha class are highly related and encode enzymes with glutathione peroxidase activity. However, during evolution, this alpha class gene diverged accumulating mutations in the active site that resulted in differences in substrate specificity and catalytic activity. The enzyme encoded by this gene catalyzes the double bond isomerization of precursors for progesterone and testosterone during the biosynthesis of steroid hormones. An additional transcript variant has been identified, but its full length sequence has not been determined.

Application Notes

Optimal dilution of the Gsta3 antibody should be determined by the researcher.

Immunogen

Amino acids EFEEKFLKTRDDLARLRSD from the mouse protein were used as the immunogen for the Gsta3 antibody.

Storage

After reconstitution, the Gsta3 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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