bs-23000R **[Primary Antibody]**

GSTA3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 14859 **SWISS:** P30115

Target: GSTA3

Immunogen: KLH conjugated synthetic peptide derived from mouse GSTA3: 51-150/221.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. Glutathione S-transferase A3 (GSTA3) belongs 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. GSTA3 catalyzes the double bond isomerization of precursors for progesterone and testosterone during the biosynthesis of steroid hormones.

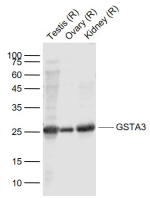
Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Mouse)

Predicted MW.: 25 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Testis (Rat) Lysate at 40 ug Lane 2: Ovary (Rat) Lysate at 40 ug Lane 3: Kidney (Rat) Lysate at 40 ug Primary: Anti-GSTA3 (bs-23000R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 25 kD