SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-GSTA3 antibody

Catalog Number: SL23000R

FOR RESEARCH USE ONLY

[DATASHEET]

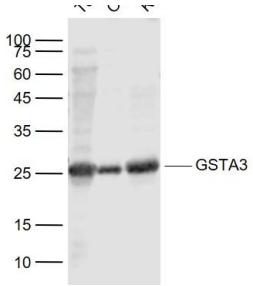
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GSTA3
Immunogen:	KLH conjugated synthetic peptide derived from mouse GSTA3: 51-150/221
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Mouse)
Predicted MW.:	25kDa
Subcellular Location:	cytoplasmic
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. **Function:** Conjugation of reduced glutathione to a wide number ofexogenous

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	and endogenous hydrophobic electrophiles. Catalyzesisomerization reactions that contribute to the biosynthesis ofsteroid hormones. Efficiently catalyze obligatory double-bondisomerizations of delta(5)-androstene-3,17-dione anddelta(5)-pregnene-3,20-dione, precursors to testosterone andprogesterone, respectively. **Subunit:** Homodimer. **Subcellular Location:** Cytoplasm. **Similarity:** Belongs to the GST superfamily. Alpha family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain. **Database links:** **Entrez Gene:** 2940 Human **Entrez Gene:** 14859 Mouse **Entrez Gene:** 24421 Rat Omim: 605449 Human **SwissProt:** Q16772 Human **SwissProt:** P30115 Mouse **SwissProt:** P04904 Rat **Unigene:** 102484 Human **Unigene:** 394593 Mouse **Unigene:** 10460 Rat

[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 (SL23000R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 25 kD

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