

Rabbit anti-Mouse, Rat Gsta3 Polyclonal Antibody | anti-Gsta3 antibody

Anti-Gsta3 Antibody

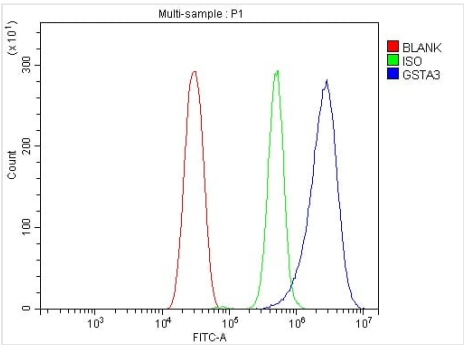
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125760	Rabbit	Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Gsta3; Polyclonal Antibody; Anti-Gsta3 Antibody; Gstyc; Glutathione S-transferase A3; GST class-alpha member 3; Glutathione S-transferase Ya3; Glutathione S-transferase Yc; glutathione S-transferase alpha 3; anti-Gsta3 antibody

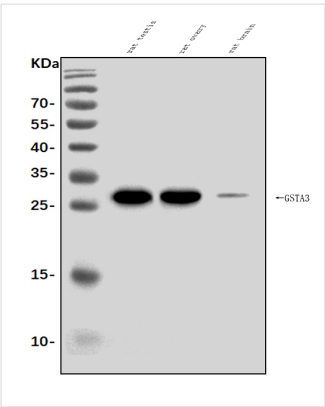
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Gsta3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Gsta3 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of mouse Gsta3 (EFEEKFLKTRDDLARLRS).D).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-Gsta3 antibody (AAA125760).Overlay histogram showing HEPA1-6 cells stained with AAA125760 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Gsta3 Antibody (AAA125760, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Gsta3 using anti-Gsta3 antibody (AAA125760).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: rat testis tissue lysatesLane 2: rat ovary tissue lysatesLane 3: rat brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Gsta3 antigen affinity purified polyclonal antibody (Catalog # AAA125760) at 0. 5μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Gsta3 at approximately 28KD. The expected band size for Gsta3 is at 28KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Gsta3 antibody	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.
References	1. Board, P. G. Identification of cDNAs encoding two human alpha class glutathione transferases (GSTA3 and GSTA4) and the heterologous expression of GSTA4-4. <i>Biochem. J.</i> 330: 827-831, 1998. 2. Morel, F., Rauch, C., Coles, B., Le Ferrec, E., Guillouzo, A. The human glutathione transferase alpha locus: genomic organization of the gene cluster and functional characterization of the genetic polymorphism in the hGSTA1 promoter. <i>Pharmacogenetics</i> 12: 277-286, 2002. 3. Suzuki, T., Johnston, P. N., Board, P. G. Structure and organization of the human alpha class glutathione S-transferase genes and related pseudogenes. <i>Genomics</i> 18: 680-686, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116325999
NCBI GeneID	14859
NCBI Accession #	NP_001070821.1
NCBI GenBank Nucleotide #	NM_001077353.2
UniProt Accession #	P30115; Q544Y6
Molecular Weight	25,361 Da

NCBI Official Full Name	glutathione S-transferase A3 isoform a
NCBI Official Synonym Full Names	glutathione S-transferase, alpha 3
NCBI Official Symbol	Gsta3
NCBI Official Synonym Symbols	Gst2-3
NCBI Protein Information	glutathione S-transferase A3; GST class-alpha member 3; glutathione S-transferase Ya3; glutathione S-transferase Yc
UniProt Protein Name	Glutathione S-transferase A3
UniProt Gene Name	Gsta3
UniProt Entry Name	GSTA3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/gsta3-antibody-flow-cytometry-western-blot-elisa/125760>