GSTA4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GSTA4, Polyclonal Antibody
Full Product Name	GSTA4 (Glutathione S-transferase A4, GST Class-alpha Member 4, Glutathione S-transferase A4-4, DKFZp686D21185) (MaxLight 550)
Product Gene Name	anti-GSTA4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human GSTA4. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo centrifuge the original vial prior to removing the cap.
Molecular Weight	14,884 Da
OMIM	605450
3D Structure	ModBase 3D Structure for O15217
Immunogen	Full length recombinant protein corresponding to aa 1-222 from human GSTA4 (NP_001503.1).
Immunogen Sequence	MAARPKLHYPNGRGRMESVRWVLAAAGVEFDEEFLETKEQLYKLQDGNHLLFQQVPMVEIDGMKLVQTRSILHYIADKHNLFGKNLKERTLIDMYVEGTL
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-GSTA4 antibody	Antibodies; Epitope Tag; GST
Applications Tested/Suitable for anti-GSTA4 antibody	Western Blot (WB)
Application Notes for anti-GSTA4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GSTA4 antibody	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. This isozyme has a high catalytic effici

Other Notes	Small volumes of anti-GSTA4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces fee may apply.
Searchable Terms for GSTA4 purchase	MBS6380392 is an antibody targeting GSTA4. Also known as GSTA4 (Glutathione S-transferase A4, GST Class-alpha Member 4, Glutathione S-transf

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTA4. It may not necessarily be applicable to this product.

NCBI GI #	4504173
NCBI GeneID	2941
NCBI Accession #	NP_001503.1
UniProt Primary Accession #	O15217
UniProt Secondary Accession #	Q5T7Q8; Q6P4G1; Q9BX18; Q9H414; B2RD15
UniProt Related Accession #	O15217
GenBank Nucleotide #	NM_001512.2
NCBI Official Full Name	glutathione S-transferase A4
NCBI Official Synonym Full Names	glutathione S-transferase alpha 4
NCBI Official Symbol	GSTA4
NCBI Official Synonym Symbols	GTA4; GSTA4-4
UniProt Protein Name	Glutathione S-transferase A4
UniProt Synonym Protein Names	GST class-alpha member 4; Glutathione S-transferase A4-4
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTA4
UniProt Entry Name	GSTA4_HUMAN
NCBI Protein Information	glutathione S-transferase A4; GST class-alpha member 4; S-(hydroxyalkyl)glutathione lyase A4; glutathione S-alkyltransferase A4; glutathione S-aralkyltransferase A4; glutathione S-aryltransferase A4; glutathione S-transferase A4-4; glutathione transferase
NCBI Summary for GSTA4	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. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq, Jul 2008]

UniProt Comments for GSTA4	GSTA4: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. This isozyme has a high catalytic efficiency with 4-hydroxyalkenals such as 4- hydroxynonenal (4-HNE). Belongs to the GST superfamily. Alpha family. Protein type: Xenobiotic Metabolism - drug metabolism - cytochrome P450; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - metabolism by cytochrome P450; Transferase; EC 2.5.1.18 Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: cytosol Molecular Function: protein homodimerization activity; glutathione transferase activity Biological Process: glutathione metabolic process; xenobiotic metabolic process
Research Articles on GSTA4	**1.** Decreased gene expression of GSTA4 is associated with drug resistance in cervical cancer.
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