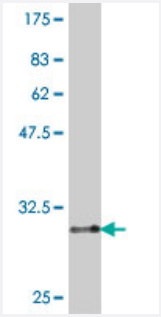
GSTA4 polyclonal antibody (A01)

Catalog # H00002941-A01 Size 50 uL

Applications



Western Blot detection against Immunogen (32.16 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant GSTA4.
Immunogen	GSTA4 (NP_001503, 168 a.a. ~ 222 a.a) partial recombinant protein with GST tag.
Sequence	EEKIPNILSAFPFLQEYTVKLSNIPTIKRFLEPGSKKKPPPDEIYVRTVYNIFRP
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.16 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — GSTA4

Entrez GeneID	2941
GeneBank Accession#	NM_001512
Protein Accession#	NP_001503
Gene Name	GSTA4
Gene Alias	DKFZp686D21185, GSTA4-4, GTA4
Gene Description	glutathione S-transferase alpha 4
Omim ID	605450
Gene Ontology	Hyperlink
Gene Summary	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct s upergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, an d pharmacologically active electrophilic compounds. At present, eight distinct classes of the solub le cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, om ega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alp ha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly relat ed and encode enzymes with glutathione peroxidase activity that function in the detoxification of li pid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been li nked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq
Other Designations	GST class-alpha|OTTHUMP00000016624|OTTHUMP00000016625|S-(hydroxyalkyl)glutathione l yase A4|glutathione S-alkyltransferase A4|glutathione S-aralkyltransferase A4|glutathione S-aryltr ansferase A4|glutathione S-transferase A4|glutathione transferase A4-4

Publication Reference

- Effects of cypermethrin on monoamine transporters, xenobiotic metabolizing enzymes and lipid peroxidation in the rat nigrostriatal system.

  Tiwari MN, Singh AK, Ahmad I, Upadhyay G, Singh D, Patel DK, Singh C, Prakash O, Singh MP.

  Free Radical Research 2010 Dec; 44(12):1416.

  Application: WB-Ti, Rat, Rat nigrostriatal tissues

- Carbonylation of adipose proteins in obesity and insulin resistance: Identification of adipocyte fatty acid-binding protein as a cellular target of 4-hydroxynonenal.

  Grimsrud PA, Picklo MJ Sr, Griffin TJ, Bernlohr DA.

  Molecular & Cellular Proteomics 2007 Jan; 6(4):624.

  Application: WB, Mouse, Mouse adipose tissues

Pathway

- Drug metabolism - cytochrome P450
- Glutathione metabolism
- Metabolism of xenobiotics by cytochrome P450

Disease

- Adenocarcinoma
- Alzheimer disease
- Carcinoma
- Celiac Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Colorectal Neoplasms
- Coronary Artery Disease
- Diabetes Complications
- Genetic Predisposition to Disease
- Genomic Instability
- Kidney Failure
- Lung carcinoma
- Lung Neoplasms

- Mesothelioma
- Neurodegenerative Diseases
- Pancreatic Neoplasms
- Parkinson disease
- Pleural Neoplasms
- Pulmonary Disease
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Urinary Bladder Neoplasms
- Werner syndrome