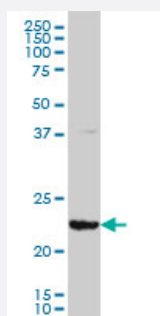


GSTA3 monoclonal antibody (M01), clone 1F11

Catalog # H00002940-M01

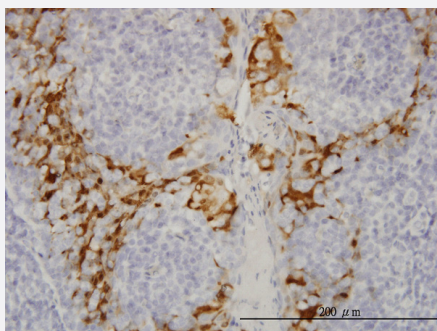
Size 100 ug

Applications



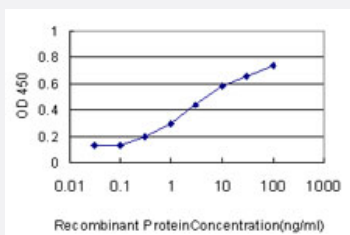
Western Blot (Cell lysate)

GSTA3 monoclonal antibody (M01), clone 1F11 Western Blot analysis of GSTA3 expression in HepG2 (Cat # L019V1).



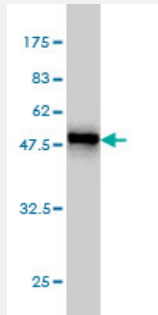
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to GSTA3 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GSTA3 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (50.16 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant GSTA3.
Immunogen	GSTA3 (AAH20619, 1 a.a. ~ 222 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAGKPKLHYFNNGRMEPIRWLLAAAGVEFEKFIGSAEDLGKLRNDGSLMFQQVPMVEIDGIKL VQTRAILNYASKYNLYGKDIKERALIDMYTEGMADLNEMILLPLCRPEEKDAKIALIKEKTKSRYFP AFEKVLQSHGQDYL VGNKLSRADISLVELLYVEELDSSLISNFP LLKALKTRISNLPTVKKFLQPG SPRKPPADAKALEEARKIFRF
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.16 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

GSTA3 monoclonal antibody (M01), clone 1F11 Western Blot analysis of GSTA3 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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[Protocol Download](#)

- ELISA

Gene Info — GSTA3

Entrez GeneID [2940](#)

GeneBank Accession# [BC020619](#)

Protein Accession# [AAH20619](#)

Gene Name GSTA3

Gene Alias GSTA3-3, GTA3, MGC22232

Gene Description glutathione S-transferase alpha 3

Omim ID [605449](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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-transferase 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. [provided by RefSeq]

Other Designations

GST class-alpha|OTTHUMP00000016615|S-(hydroxyalkyl)glutathione lyase A3|glutathione S-alkyltransferase A3|glutathione S-aryltransferase A3|glutathione S-transferase A3-3

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glutathione metabolism](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

Disease

- [Alzheimer disease](#)
- [Cognition](#)
- [Lung Neoplasms](#)