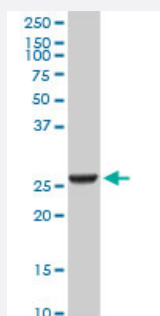


# GSTA2 monoclonal antibody (M05), clone 3D4

Catalog # H00002939-M05

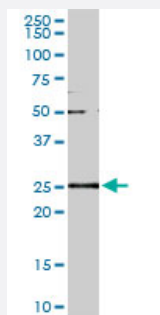
Size 100 ug

## Applications



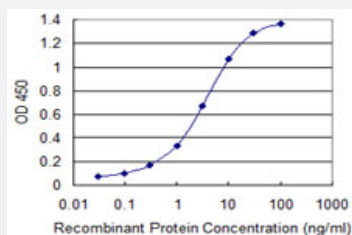
### Western Blot (Tissue lysate)

GSTA2 monoclonal antibody (M05), clone 3D4. Western Blot analysis of GSTA2 expression in human liver.



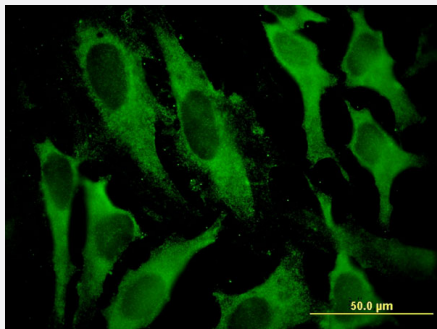
### Western Blot (Cell lysate)

GSTA2 monoclonal antibody (M05), clone 3D4. Western Blot analysis of GSTA2 expression in HepG2 (Cat # L019V1).



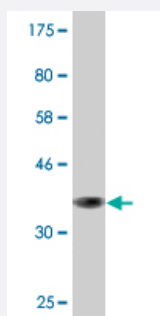
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GSTA2 is 0.03 ng/ml as a capture antibody.



## Immunofluorescence

Immunofluorescence of monoclonal antibody to GSTA2 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

## Specification

|                                |                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a partial recombinant GSTA2.                                           |
| <b>Immunogen</b>               | GSTA2 (AAH02895, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                | MAEKPKLHYSNIRGRMESIRWLLAAAGVEFEEKFIKSAEDLDKLRNDGYLMFQQVPMVEIDGMKL<br>VQTRAILNYASKYNLYGKDIKEKALIDMYIEGIA         |
| <b>Host</b>                    | Mouse                                                                                                           |
| <b>Reactivity</b>              | Human                                                                                                           |
| <b>Isotype</b>                 | IgG1 Kappa                                                                                                      |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.74 KDa) .        |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                               |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                        |

## Applications

- Western Blot (Tissue lysate)

GSTA2 monoclonal antibody (M05), clone 3D4. Western Blot analysis of GSTA2 expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

GSTA2 monoclonal antibody (M05), clone 3D4. Western Blot analysis of GSTA2 expression in HepG2(Cat # L019V1 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GSTA2 is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to GSTA2 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — GSTA2

|               |                      |
|---------------|----------------------|
| Entrez GeneID | <a href="#">2939</a> |
|---------------|----------------------|

|                     |                          |
|---------------------|--------------------------|
| GeneBank Accession# | <a href="#">BC002895</a> |
|---------------------|--------------------------|

|                    |                          |
|--------------------|--------------------------|
| Protein Accession# | <a href="#">AAH02895</a> |
|--------------------|--------------------------|

|           |       |
|-----------|-------|
| Gene Name | GSTA2 |
|-----------|-------|

|            |                                     |
|------------|-------------------------------------|
| Gene Alias | GST2, GSTA2-2, GTA2, GTH2, MGC10525 |
|------------|-------------------------------------|

|                  |                                   |
|------------------|-----------------------------------|
| Gene Description | glutathione S-transferase alpha 2 |
|------------------|-----------------------------------|

|         |                        |
|---------|------------------------|
| Omim ID | <a href="#">138360</a> |
|---------|------------------------|

|               |                           |
|---------------|---------------------------|
| Gene Ontology | <a href="#">Hyperlink</a> |
|---------------|---------------------------|

**Gene Summary**

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. 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. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. [provided by RefSeq]

**Other Designations**

GST, class alpha, 2[GST-gamma]HA subunit 2[OTTHUMP00000017883]S-(hydroxyalkyl)glutathione lyase A2[glutathione S-alkyltransferase A2]glutathione S-aralkyltransferase A2[glutathione S-alkyltransferase A2]glutathione S-transferase 2[glutathione S-transferase

**Pathway**

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

**Disease**

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)

- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Lung Neoplasms](#)
- [Mesothelioma](#)
- [Mouth Neoplasms](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)