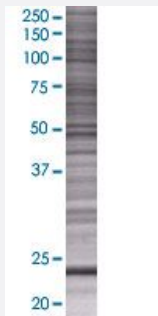


GSTA3 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00002940-T01

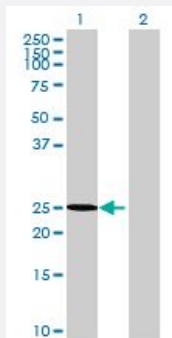
Size 100 uL

Applications



SDS-PAGE Gel

GSTA3 transfected lysate.



Western Blot

Lane 1: GSTA3 transfected lysate (24.53 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-GSTA3 full-length

Host Human

Theoretical MW (kDa) 24.53

Quality Control Testing Transient overexpression cell lysate was tested with Anti-GSTA3 antibody ([H00002940-B01](#)) by Western Blots.
SDS-PAGE Gel
GSTA3 transfected lysate.
Western Blot
Lane 1: GSTA3 transfected lysate (24.53 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — GSTA3

Entrez GeneID[2940](#)**GeneBank Accession#**[BC020619.1](#)**Protein Accession#**[AAH20619.1](#)**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-aralkyltransferase 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](#)