

Product Name: KD-Validated GSTZ1 Mouse Monoclonal Antibody**Catalog #: KVA00532**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 24.2kDa

Antigen Information

Gene Name	GSTZ1
Alternative Names	GSTZ1; Glutathione S-Transferase Zeta 1; GSTZ1-1; MAAI; Maleylacetoacetate Isomerase; MAI; Glutathione Transferase Zeta 1; S-(Hydroxyalkyl)Glutathione Lyase; Glutathione S-Aralkyltransferase; Glutathione S-Alkyltransferase; Glutathione S-Aryltransferase; Maleylacetone Isomerase; EC 2.5.1.18; EC 5.2.1.2; MAAID
Gene ID	2954.0
SwissProt ID	O43708
Immunogen	Recombinant protein of human GSTZ1

Background

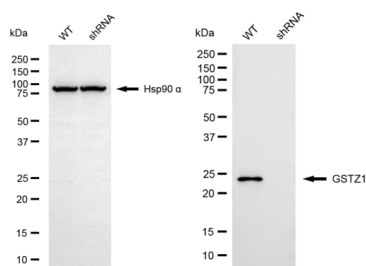
This gene is a member of the glutathione S-transferase (GSTs) super-family which encodes multifunctional enzymes important

in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drugs, by conjugation with glutathione. This enzyme catalyzes the conversion of maleylacetoacetate to fumarylacetoacetate, which is one of the steps in the phenylalanine/tyrosine degradation pathway. Deficiency of a similar gene in mouse causes oxidative stress. Several transcript variants of this gene encode multiple protein isoforms. [provided by RefSeq, Jul 2015]

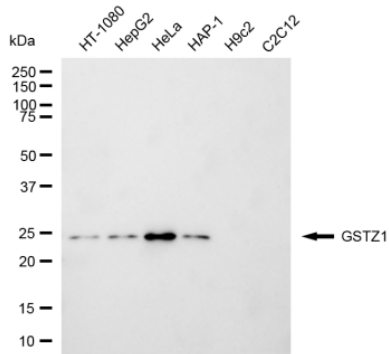
Research Area

Cancer

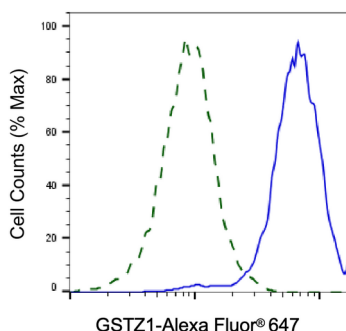
Image Data



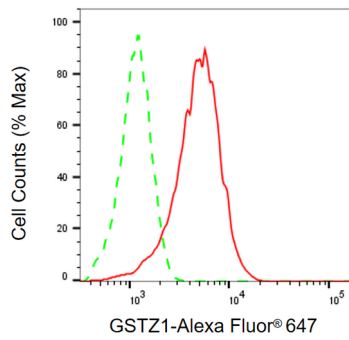
Western blotting analysis using GSTZ1 antibody (KVA00532). GSTZ1 expression in wild-type (WT) and GSTZ1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GSTZ1 antibody (KVA00532, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using GSTZ1 antibody (KVA00532). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GSTZ1 antibody (KVA00532, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of GSTZ1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with GSTZ1 antibody (KVA00532, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of GSTZ1 expression in HeLa cells using GSTZ1 antibody (KVA00532, 1:2,000). Green, isotype control; red, GSTZ1.