

GSTT1 Monoclonal antibody

Catalog Number: 67645-1-Ig

Basic Information

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| Catalog Number: 67645-1-Ig | GenBank Accession Number: BC007065 | Purification Method: Protein A purification |
| Size: 2200 µg/ml | GeneID (NCBI): 2952 | CloneNo.: 1A4C11 |
| Source: Mouse | UNIPROT ID: P30711 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000 IF 1:200-1:800 |
| Isotype: IgG2b | Full Name: glutathione S-transferase theta 1 | |
| Immunogen Catalog Number: AG8573 | Calculated MW: 240 aa, 27 kDa | |
| | Observed MW: 28 kDa, 30 kDa | |

Applications

Tested Applications:

WB, IF-P, IHC, ELISA

Species Specificity:

Human, pig, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : pig lung tissue, pig liver tissue, K-562 cells, rat liver tissue, mouse brain tissue

IHC : mouse liver tissue,

IF : mouse liver tissue,

Background Information

GSTT1 belongs to the GST superfamily and Theta family. It is a conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. GSTT1 acts on 1,2-epoxy-3-(4-nitrophenoxy)propane, phenethylisothiocyanate 4-nitrobenzyl chloride and 4-nitrophenethyl bromide. It displays glutathione peroxidase activity with cumene hydroperoxide. GSTM1 and GSTT1 has been suggested as a risk factor in various cancers. GSTT1 is important in the detoxification of unidentified xenobiotics in the large intestine.

Storage

Storage:

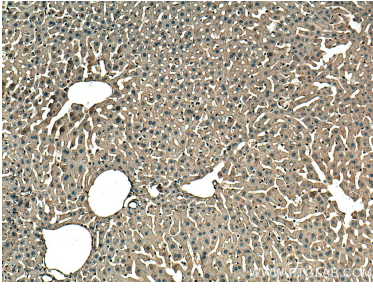
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

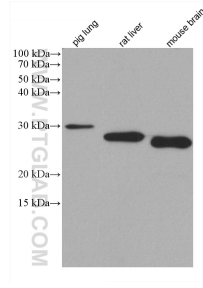
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

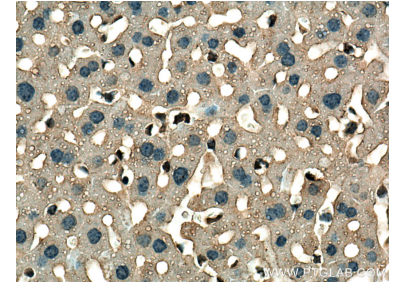
Selected Validation Data



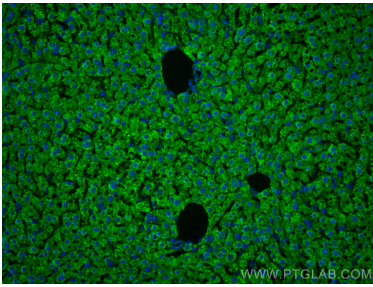
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 67645-1-Ig (GSTT1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



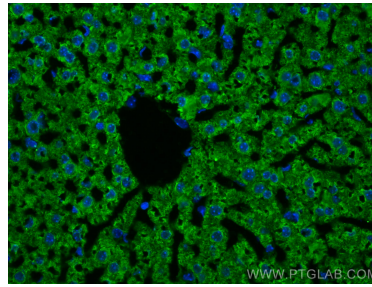
Various lysates were subjected to SDS PAGE followed by western blot with 67645-1-Ig (GSTT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 67645-1-Ig (GSTT1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using GSTT1 antibody (67645-1-Ig, Clone: 1A4C11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using GSTT1 antibody (67645-1-Ig, Clone: 1A4C11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).