

For Research Use Only

GSTP1 Polyclonal antibody

Catalog Number: 15902-1-AP

Featured Product

39 Publications



Basic Information

Catalog Number:

15902-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8731

GenBank Accession Number:

BC010915

GeneID (NCBI):

2950

UNIPROT ID:

P09211

Full Name:

glutathione S-transferase pi 1

Calculated MW:

210 aa, 23 kDa

Observed MW:

23-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:1600

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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: COLO 320 cells, human brain tissue, HeLa cells, HEK-293 cells, K-562 cells, Jurkat cells, PC-3 cells, mouse brain tissue, mouse heart tissue, rat brain tissue, rat heart tissue

IP: mouse brain tissue,

IHC: mouse skin tissue, human colon, human liver tissue, human skin tissue

IF/ICC: HepG2 cells,

FC (Intra): HepG2 cells,

Background Information

Glutathione S-transferase Pi (GSTP1) is an isozyme encoded by the GST pi gene that plays an important regulatory role in detoxification, anti-oxidative damage, and the occurrence of various diseases (PMID: 14755684). GSTP1 conjugates reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. It is involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2) (PMID: 9084911). GSTP1 methylation is frequently associated with tumor development or poor prognosis in a wide range of tumors such as neuroblastoma, hepatocellular carcinoma, endometrial, breast, and prostate cancers (PCa) (PMID: 27594734).

Notable Publications

Author	Pubmed ID	Journal	Application
Lei Ye	33491741	Int J Oncol	WB
Shuo Chen	26396496	Drug Des Devel Ther	WB
Ming-Wei Lin	36135183	Curr Issues Mol Biol	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

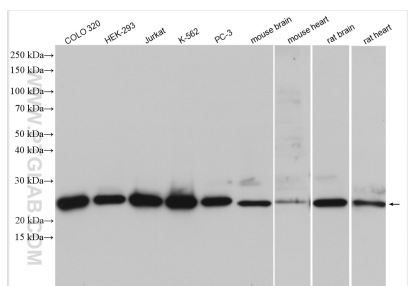
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

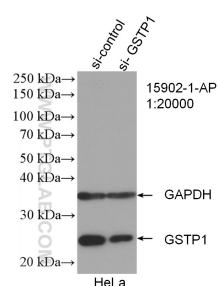
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

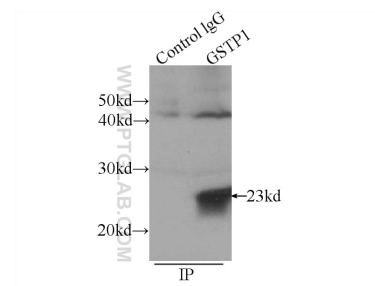
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15902-1-AP (GSTP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



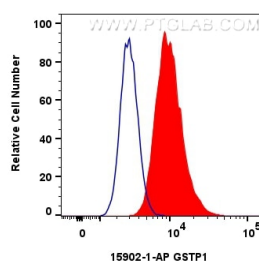
WB result of GSTP1 antibody (15902-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSTP1 transfected HeLa cells.



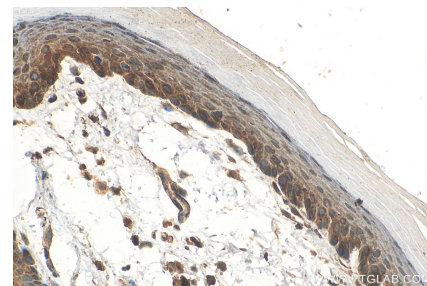
IP result of anti-GSTP1 (IP: 15902-1-AP, 3ug; Detection: 15902-1-AP 1:800) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 15902-1-AP (GSTP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



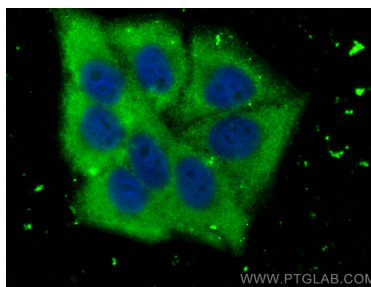
1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug GSTP1 Polyclonal antibody (15902-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 15902-1-AP (GSTP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon slide using 15902-1-AP (GSTP1 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GSTP1 antibody (15902-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).