

For Research Use Only

# GSTO1 Polyclonal antibody

Catalog Number: 15124-1-AP

Featured Product

15 Publications



## Basic Information

**Catalog Number:**

15124-1-AP

**Size:**

150ul, Concentration: 450 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7199

**GenBank Accession Number:**

BC000127

**GeneID (NCBI):**

9446

**UNIPROT ID:**

P78417

**Full Name:**

glutathione S-transferase omega 1

**Calculated MW:**

28 kDa

**Observed MW:**

27-30 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, pig

**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:** HeLa cells, rat brain tissue, mouse liver tissue, human heart tissue, U-937 cells, Jurkat cells, PC-3 cells

**IP:** Jurkat cells,

**IHC:** human pancreas cancer tissue,

**IF/ICC:** PC-3 cells,

## Background Information

Glutathione-S-transferase omega 1 (GSTO1) belongs to a new subfamily of GSTs and is the rate limiting enzyme for biotransformation of inorganic arsenic, environmental carcinogen. Expression of GSTO1-1 was abundant in a wide range of normal tissues, particularly liver, macrophages, glial cells, and endocrine cells. Human GSTO1 assembles as a dimer. This antibody detects both monomer (27-30 kDa) and dimer forms of GSTO1 (54-64 kDa). (PMID: 21495794)

## Notable Publications

Author	Pubmed ID	Journal	Application
Dan Liu	30267739	Neurotoxicology	WB
Yuan-Chang Dai	29016672	PLoS One	WB
Xinhua Hou	32480263	Food Chem	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

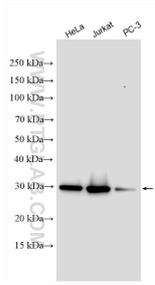
For technical support and original validation data for this product please contact:

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

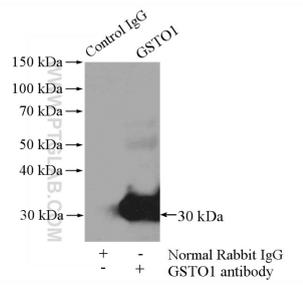
E: proteintech@ptglab.com  
W: ptglab.com

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

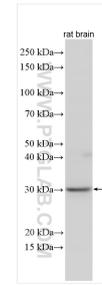
## Selected Validation Data



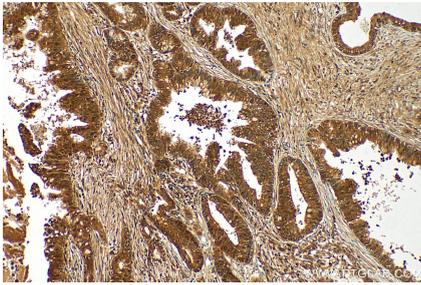
Various lysates were subjected to SDS PAGE followed by western blot with 15124-1-AP (GSTO1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



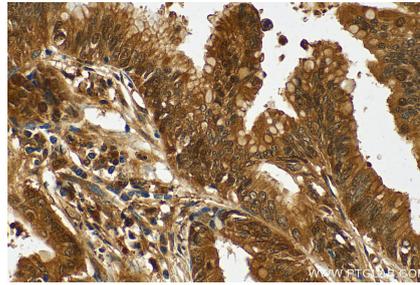
IP result of anti-GSTO1 (IP:15124-1-AP, 4ug; Detection:15124-1-AP 1:500) with Jurkat cells lysate 4000ug.



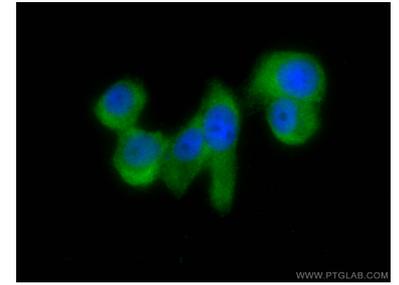
rat brain tissue were subjected to SDS PAGE followed by western blot with 15124-1-AP (GSTO1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 15124-1-AP (GSTO1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 15124-1-AP (GSTO1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using GSTO1 antibody (15124-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).