

For Research Use Only

# SHMT1 Polyclonal antibody

Catalog Number: 30192-1-AP



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>30192-1-AP                          | <b>GenBank Accession Number:</b><br>BC038598                     | <b>Purification Method:</b><br>Antigen affinity purification                             |
| <b>Size:</b><br>150ul , Concentration: 800 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>6470                                    | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:500-1:2000<br>IF 1:200-1:800 |
| <b>Source:</b><br>Rabbit                                      | <b>Full Name:</b><br>serine hydroxymethyltransferase 1 (soluble) |  |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>483 aa, 53 kDa                          |  |
| <b>Immunogen Catalog Number:</b><br>AG31269                   | <b>Observed MW:</b><br>45-53 kDa                                 |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>FC, IF, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : A431 cells, HeLa cells, MCF-7 cells, MOLT-4 cells, T-47D cells, mouse liver tissue, rat liver tissue<br>IHC : human kidney tissue,<br>IF : HepG2 cells, |
| <b>Species Specificity:</b><br>Human, Mouse, Rat   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

SHMT1 is the cellular form of serine hydroxymethyltransferase, a pyridoxal phosphate-containing enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. Alternative splicing of this gene results in 2 transcript variants encoding 2 different isoforms. This antibody can detect both 49 kDa and 53 kDa isoforms in western blotting.

## Storage

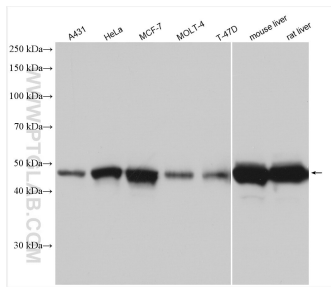
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

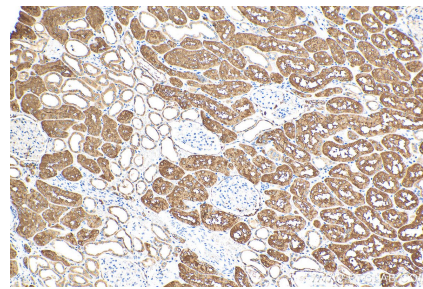
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

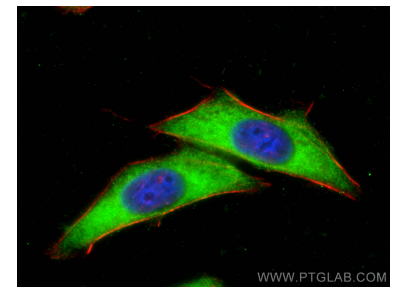
## Selected Validation Data



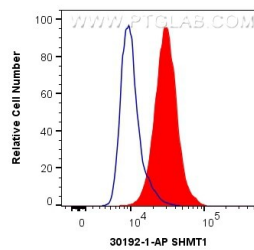
Various lysates were subjected to SDS PAGE followed by western blot with 30192-1-AP (SHMT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 30192-1-AP (SHMT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using SHMT1 antibody (30192-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human SHMT1 (30192-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).