For Research Use Only

SHMT1 Polyclonal antibody

Catalog Number:14149-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: GenBank Accession Number: 14149-1-AP BC038598

ze: GeneID (NCBI):

150ul , Concentration: 300 µg/ml by 6470

Nanodrop; Full Na

Source: serine hydroxymethyltransferase 1

Rabbit (soluble)

Isotype: Calculated MW:
IgG 483 aa, 53 kDa

Immunogen Catalog Number: Observed MW:
AG5330 45-53 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions: WB 1:500-1:3000

IHC 1:50-1:500 IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, WB, ELISA
Cited Applications:

IF, WB

Species Specificity: human, mouse, rat Cited Species:

human, 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: HeLa cells, HepG2 cells

IHC: human breast cancer tissue,

IF: HepG2 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Miao Zhang	36175800	Int J Legal Med	WB
Dongqing Guo	29116138	Sci Rep	WB
Muyu Xu	29791506	PLoS Pathog	WB

Storage

Storage:

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

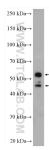
Storage Buffer

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

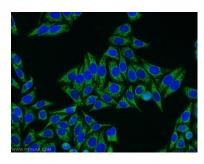
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 14149-1-AP (SHMT1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 14149-1-AP (SHMT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immun of luorescent analysis of HepG2 cells using 14149-1-AP (SHMT1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Affini Pure Goat Anti-Rabbit IgG(H+L).