

For Research Use Only

SAT1 Polyclonal antibody

Catalog Number: 10708-1-AP

Featured Product

19 Publications



Basic Information

Catalog Number:

10708-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1154

GenBank Accession Number:

BC008424

GeneID (NCBI):

6303

UNIPROT ID:

P21673

Full Name:

spermidine/spermine N1-acetyltransferase 1

Calculated MW:

20 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, 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: rat brain tissue, mouse liver tissue, HEK-293 cell, HeLa cells

IP: mouse liver tissue,

IHC: mouse brain tissue,

Background Information

Spermidine/spermine N1-acetyltransferase 1 (SAT1 or SSAT1) is the key regulatory enzyme in the catabolism of polyamines, catalyzing acetylation of spermidine or spermine to generate N1-acetyl spermidine or N1-acetyl spermine, and N1, N12-diacetylspermine. The cellular level of SAT1 is normally extremely low, but it is induced rapidly by a variety of stimuli, including polyamines, polyamine analogs, toxic chemicals, certain drugs, and growth factors. Downregulation of SAT1 has been reported in Epstein-Barr virus positive Burkitt's lymphoma cells.

Notable Publications

Author	Pubmed ID	Journal	Application
Lewandowski Nicole M NM	20837543	Proc Natl Acad Sci U S A	IHC
Yini Dang	36297287	Pharmaceuticals (Basel)	WB
Yan-Yan Wu	30257361	Biomed Pharmacother	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

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

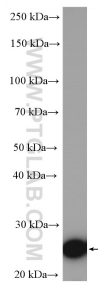
T: 4006900926

E: Proteintech-CN@ptglab.com

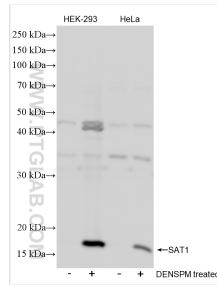
W: ptgcn.com

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

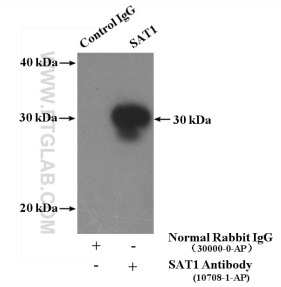
Selected Validation Data



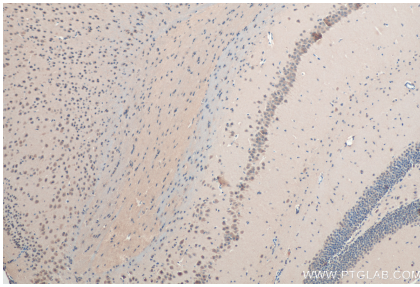
rat brain tissue were subjected to SDS PAGE followed by western blot with 10708-1-AP (SAT1 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Untreated and DENSPM treated HEK-293 and HeLa cells were subjected to SDS PAGE followed by western blot with 10708-1-AP (SAT1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-SAT1 (IP:10708-1-AP, 4ug; Detection:10708-1-AP 1:300) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10708-1-AP (SAT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).