

For Research Use Only

SAT1 Polyclonal antibody

Catalog Number: 10708-1-AP

Featured Product

19 Publications



Basic Information

| | | |
|--|---|--|
| Catalog Number: 10708-1-AP | GenBank Accession Number: BC008424 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 300 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 6303 | Recommended Dilutions: WB 1:200-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P21673 | |
| Isotype: IgG | Full Name: spermidine/spermine N1-acetyltransferase 1 | |
| Immunogen Catalog Number: AG1154 | Calculated MW: 20 kDa | |
| | Observed MW: 25-30 kDa | |

Applications

| | |
|---|--|
| Tested Applications: IHC, IP, WB, ELISA | Positive Controls: WB : rat brain tissue, mouse liver tissue |
| Cited Applications: IF, IHC, WB | IP : mouse liver tissue, |
| Species Specificity: human, mouse, rat | IHC : mouse brain tissue, |
| 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

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

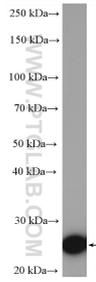
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

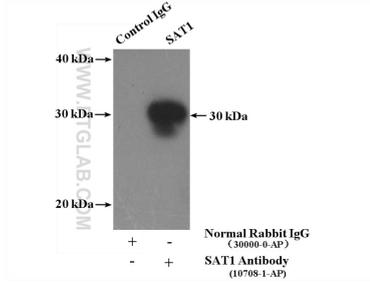
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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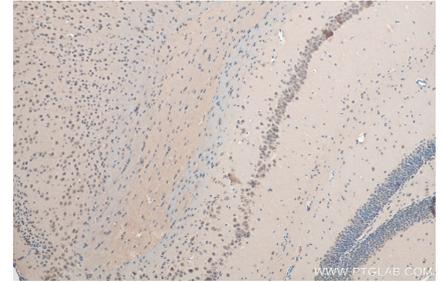
Selected Validation Data



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.



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).