

For Research Use Only

PSAT1 Polyclonal antibody

Catalog Number: 10501-1-AP

Featured Product

55 Publications



Basic Information

Catalog Number: 10501-1-AP	GenBank Accession Number: BC004863	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 800 µg/ml by Nanodrop;	GeneID (NCBI): 29968	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF 1:50-1:500
Source: Rabbit	Full Name: phosphoserine aminotransferase 1	
Isotype: IgG	Calculated MW: 40 kDa	
Immunogen Catalog Number: AG0776	Observed MW: 37-40 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, rat

Cited Species:
human, mouse, 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, Jurkat cells, HEK-293 cells, HepG2 cells, K-562 cells, rat brain tissue

IP: HeLa cells,

IHC: human pancreas cancer tissue, human colon cancer tissue

IF: HepG2 cells,

Background Information

PSAT1, also named PSA and PSAT, belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family and SerC subfamily. It catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine. PSAT1 represents a new interesting target for CRC therapy. (PMID:18221502) It may be implicated in altered serine metabolism and schizophrenia spectrum conditions. (PMID:20955740)

Notable Publications

Author	Pubmed ID	Journal	Application
Shengya Tian	31562192	Life Sci Alliance	WB
RL Yang	32940141	J Dent Res	WB,IF
Brandon J Gheller	33122122	Mol Metab	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

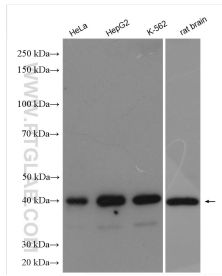
For technical support and original validation data for this product please contact:

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

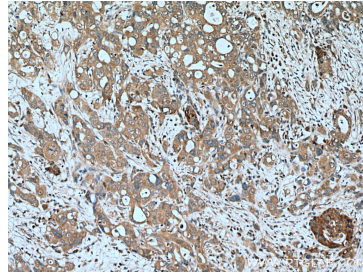
E: proteintech@ptglab.com
W: ptglab.com

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

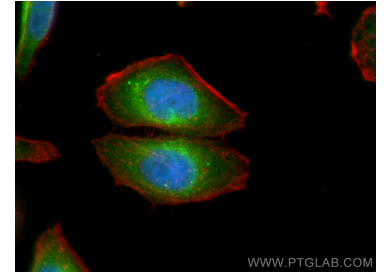
Selected Validation Data



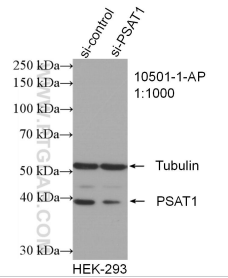
Various lysates were subjected to SDS PAGE followed by western blot with 10501-1-AP (PSAT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



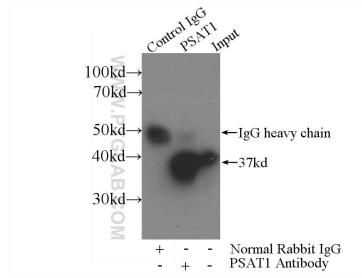
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10501-1-AP (PSAT1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PSAT1 antibody (10501-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



WB result of PSAT1 antibody (10501-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSAT1 transfected HEK-293 cells.



IP Result of anti-PSAT1 (IP:10501-1-AP, 3ug; Detection:10501-1-AP 1:300) with HeLa cells lysate 2480ug.