

For Research Use Only

# PSAT1 Monoclonal antibody

Catalog Number: 67619-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 67619-1-Ig	<b>GenBank Accession Number:</b> BC001618	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 29968	<b>CloneNo.:</b> 1B2C9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9Y617	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> phosphoserine aminotransferase 1	
<b>Immunogen Catalog Number:</b> AG14076	<b>Calculated MW:</b> 370 aa, 40 kDa	
	<b>Observed MW:</b> 37-40 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
WB, IHC

**Species Specificity:**  
Human, mouse, rat, pig

**Cited Species:**  
human

**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, HEK-293 cells, Jurkat cells, K-562 cells, NIH/3T3 cells, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue

**IHC:** human breast cancer tissue,

**IF/ICC:** HCT 116 cells,

## Background Information

PSAT1, also named as 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
Hui Jie	39948566	Cancer Metab	WB
Su Hwan Park	38825643	Exp Mol Med	WB
Liwen Feng	38512709	Cancer Biother Radiopharm	IHC

## Storage

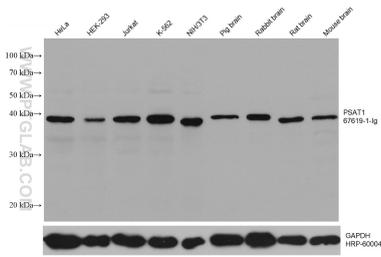
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

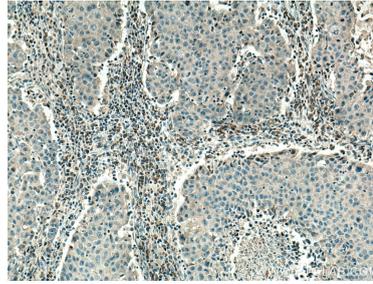
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

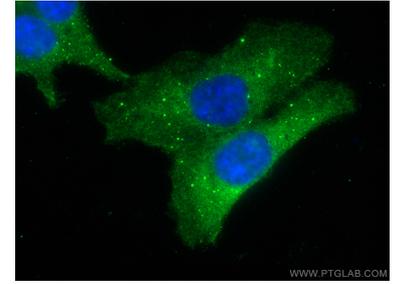
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67619-1-Ig (PSAT1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67619-1-Ig (PSAT1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HCT 116 cells using PSAT1 antibody (67619-1-Ig, Clone: 1B2C9) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L).