

For Research Use Only

PSAT1 Monoclonal antibody

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



Basic Information

Catalog Number: 67619-1-Ig	GenBank Accession Number: BC001618	Purification Method: Protein G purification
Size: 1500 µg/ml	GeneID (NCBI): 29968	CloneNo.: 1B2C9
Source: Mouse	UNIPROT ID: Q9Y617	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: phosphoserine aminotransferase 1	
Immunogen Catalog Number: AG14076	Calculated MW: 370 aa, 40 kDa	
	Observed MW: 37-40 kDa	

Applications

Tested Applications: WB, IF/ICC, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	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
Species Specificity: Human, mouse, rat, pig	IHC : human breast cancer tissue,
Cited Species: human	IF/ICC : HCT 116 cells,
Note-IHC: <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	

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
Xijuan Peng	37192746	Thorac Cancer	WB,IHC

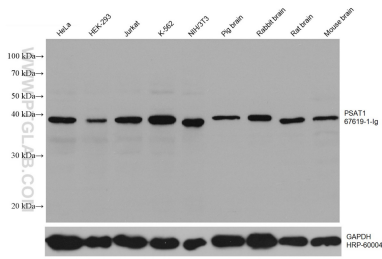
Storage

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

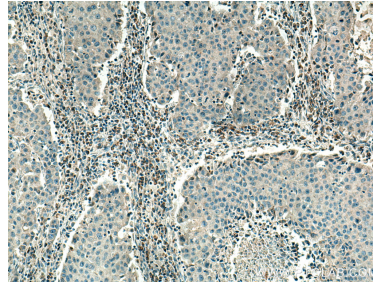
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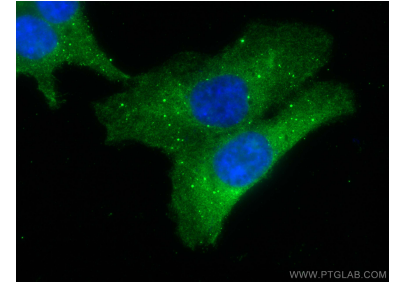
Selected Validation Data



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 AffiniPure Goat Anti-Mouse IgG(H+L).