Product Datasheet

PSAT1 Antibody
H00029968-A01

Unit Size: 0.05 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 13

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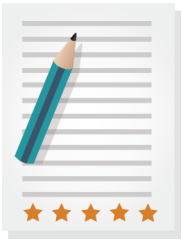
Updated 6/13/2024 v.20.1



H00029968-A01

PSAT1 Antibody

Product Information

Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Unpurified
Buffer	50% Glycerol

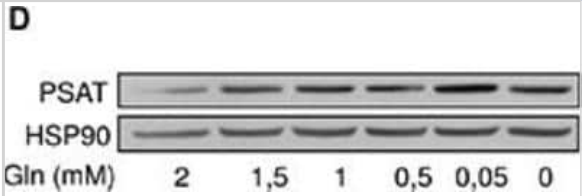
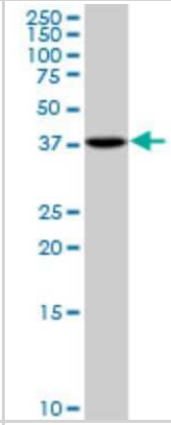
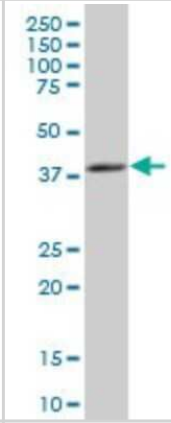
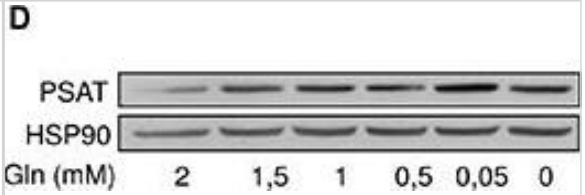
Product Description

Host	Mouse
Gene ID	29968
Gene Symbol	PSAT1
Species	Human, Bacteria
Specificity/Sensitivity	PSAT1 - phosphoserine aminotransferase 1
Immunogen	PSAT1 (NP_478059, 262 a.a. - 370 a.a.) partial recombinant protein with GST tag. GGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSKMNIPFRIGNAKGDDAL EKRFLDKALELNMLSLKGHRSVGGIRASLYNAVTIEDVQKLAAFMKKFLEMHQL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details

Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000
Application Notes	Antibody reactive against cell lysate and recombinant protein for western blot. It has also been used for ELISA.

Images

Western Blot: PSAT1 Antibody [H00029968-A01] - Representative immunoblots for PSAT in HL-60 leukemia cells incubated for 48 hours in medium containing the indicated decreasing concentrations of Gln. Image collected and cropped by CiteAb from the following publication (oncotarget.com/article/6426/text/), licensed under a CC-BY license.	
Western Blot: PSAT1 Antibody [H00029968-A01] - Analysis of PSAT1 expression in MES-SA/Dx5.	
Western Blot: PSAT1 Antibody [H00029968-A01] - Analysis of PSAT1 expression in IMR-32 (Cat # L008V1).	
Gln deprivation promotes the serine pathway. Representative immunoblots for (C) PHGDH and (D) PSAT in HL-60 leukemia cells incubated for 48 hours in medium containing the indicated decreasing concentrations of Gln. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/26625201), licensed under a CC-BY licence.	

Publications

Rinaldi G, Pranzini E, Van Elsen J et al. In□Vivo Evidence for Serine Biosynthesis-Defined Sensitivity of Lung Metastasis, but Not of Primary Breast Tumors, to mTORC1 Inhibition Molecular Cell 2021-01-01 [PMID: 33340488]

Bodinier R, Leiba J, Sabra A et al. LrrkA, a kinase with leucine-rich repeats, links folate sensing with Kil2 activity and intracellular killing. Cell Microbiol. 2019-11-07 [PMID: 31652367]

Diehl F, Lewis C, Fiske B et al. Cellular redox state constrains serine synthesis and nucleotide production to impact cell proliferation. Nat Metab. 2019-09-16 [PMID: 31598584]

Robert B, Douglas B, Keisuke Y et al. Neurons Release Serine to Support mRNA Translation in Pancreatic Cancer. Cell. 2020-11-02 [PMID: 33142117]

Krall AS, Mullen PJ, Surjono F et al. Asparagine couples mitochondrial respiration to ATF4 activity and tumor growth Cell metabolism 2021-02-17 [PMID: 33609439]

Wang LW Metabolic Remodeling of Human B-Cells During Latent Epstein-Barr Virus (EBV) Infection Thesis 2019-01-01 (WB, Human)

Wang LW, Shen H, Nobre L et al. Epstein-Barr-Virus-Induced One-Carbon Metabolism Drives B Cell Transformation Cell Metab. 2019-06-25 [PMID: 31257153]

Yang CS, Stampouloglou E, Kingston NM et al. Glutamine-utilizing transaminases are a metabolic vulnerability of TAZ/YAP-activated cancer cells. EMBO Rep 2018-04-16 [PMID: 29661856]

Krall AS, Xu S, Graeber TG et al. Asparagine promotes cancer cell proliferation through use as an amino acid exchange factor. Nat Commun 2016-04-29 [PMID: 27126896] (WB)

Polet F, Corbet C, Pinto A et al. Reducing the serine availability complements the inhibition of the glutamine metabolism to block leukemia cell growth. Oncotarget 2016-01-12 [PMID: 26625201] (WB)

Ma L, Tao Y, Duran A et al. Control of Nutrient Stress-Induced Metabolic Reprogramming by PKCzeta in Tumorigenesis. Cell 2013-01-31 [PMID: 23374352] (WB, Human)

Possemato R, Marks KM, Shaul YD et al. Functional genomics reveal that the serine synthesis pathway is essential in breast cancer. Nature 2011-08-01 [PMID: 21760589] (WB, Human)

More publications at http://www.novusbio.com/H00029968-A01

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