

Product Datasheet

PSAT1 Antibody NBP1-32920

Unit Size: 0.1 ml

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

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NBP1-32920**PSAT1 Antibody****Product Information**

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	40 kDa

Product Description

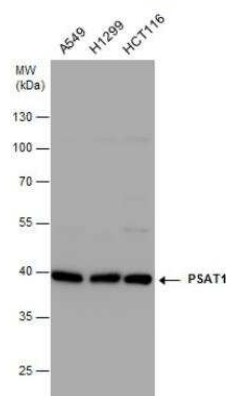
Host	Rabbit
Gene ID	29968
Gene Symbol	PSAT1
Species	Human, Mouse
Reactivity Notes	Xenopus laevis (82%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human PSAT1. The exact sequence is proprietary.

Product Application Details

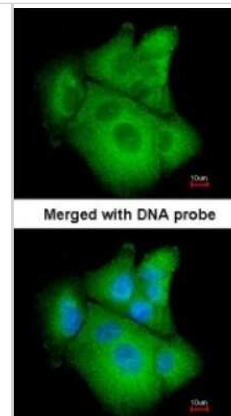
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Knockdown Validated

Images

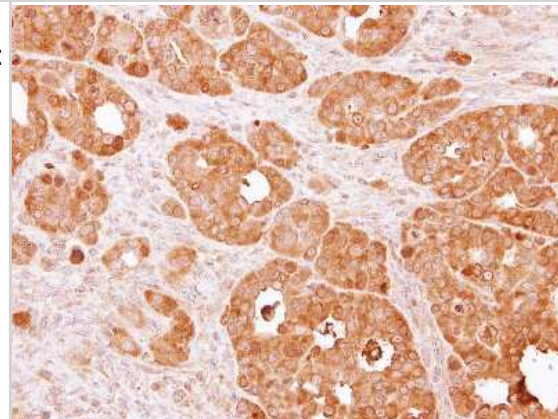
Western Blot: PSAT1 Antibody [NBP1-32920] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with PSAT1 antibody [N1C3] diluted at 1:1000.



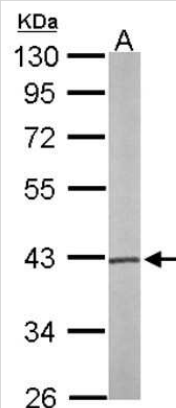
Immunocytochemistry/Immunofluorescence: PSAT1 Antibody [NBP1-32920] - Paraformaldehyde-fixed A549, using antibody at 1:200 dilution.



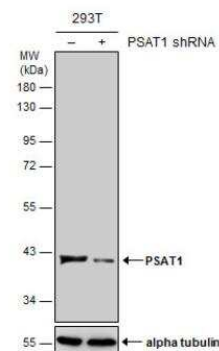
Immunohistochemistry-Paraffin: PSAT1 Antibody [NBP1-32920] - NCI-N87 xenograft, using PSAT1 antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Western Blot: PSAT1 Antibody [NBP1-32920] - Sample (50 ug of whole cell lysate) A: Mouse brain 10% SDS PAGE; antibody diluted at 1:1000.



Western Blot: PSAT1 Antibody [NBP1-32920] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with PSAT1 antibody [N1C3].



Publications

Kim Y, Ju H, Yoo SY et Al. Glutathione dynamics is a potential predictive and therapeutic trait for neoadjuvant chemotherapy response in bladder cancer *Cell Rep Med* 2023-10-04 [PMID: 37797616]

Vasileios Papalazarou, Alice C. Newman, Alejandro Huerta-Urbe, Nathalie M. Legrave, Mattia Falcone, Tong Zhang, Lynn McGarry, Dimitris Athineos, Emma Shanks, Karen Blyth, Karen H. Vousden, Oliver D. K. Maddocks Phenotypic profiling of solute carriers characterizes serine transport in cancer *Nature Metabolism* 2023-12-08 [PMID: 38066114]

Jennifer X Ji, Dawn R Cochrane, Gian Luca Negri, Shane Colborne, Sandra E Spencer Miko, Lynn N Hoang, David Farnell, Basile Tessier-Cloutier, Jutta Huvila, Emily Thompson, Samuel Leung, Derek Chiu, Christine Chow, Monica Ta, Martin Köbel, Lucas Feil, Michael Anglesio, Ellen L Goode, Kelly Bolton, Gregg B Morin, David G Huntsman The proteome of clear cell ovarian carcinoma. *The Journal of pathology* 2022-11-10 [PMID: 36031730]

Montrose DC, Saha S, Foronda M et al. Exogenous and Endogenous Sources of Serine Contribute to Colon Cancer Metabolism, Growth, and Resistance to 5-Fluorouracil *Cancer Research* 2021-05-01 [PMID: 33526512] (Western Blot, Block/Neutralize)

Hulea L, Gravel SP, Morita M et al. Translational and HIF-1 α -Dependent Metabolic Reprogramming Underpin Metabolic Plasticity and Responses to Kinase Inhibitors and Biguanides. *Cell Metab.* 2018-09-17 [PMID: 30244971] (B/N)

Lee G, Wong C, Cho A et al. Serine synthesis pathway upregulated by E-cadherin is essential for the proliferation and metastasis of breast cancers *bioRxiv* 2023-05-25 [PMID: 37292712] (WB, Human)

Wang K, Luo L, Fu S et al. PHGDH arginine methylation by PRMT1 promotes serine synthesis and represents a therapeutic vulnerability in hepatocellular carcinoma *Nature communications* 2023-02-23 [PMID: 36823188] (WB)

Jiang J, Chen HN, Jin P et al. Targeting PSAT1 to mitigate metastasis in tumors with p53-72Pro variant *Signal transduction and targeted therapy* 2023-02-15 [PMID: 36788227] (IHC-P, Human)

Di Marcantonio D, Martinez E, Kanefsky JS et al. ATF3 coordinates serine and nucleotide metabolism to drive cell cycle progression in acute myeloid leukemia *Molecular cell* 2021-07-01 [PMID: 34081901]

Toonen Lodewijk J A, Overzier Maurice, Evers Melvin M et al. Transcriptional profiling and biomarker identification reveal tissue specific effects of expanded ataxin-3 in a spinocerebellar ataxia type 3 mouse model. *Molecular Neurodegeneration* 2018-06-22 [PMID: 29929540] (WB, Mouse)

Jiang J, Zhang L, Chen H et al. Regorafenib induces lethal autophagy arrest by stabilizing PSAT1 in glioblastoma *Autophagy* 2019-03-25 [PMID: 30909789] (WB, Human)

Maddocks ODK, Athineos D, Cheung EC et al. Modulating the therapeutic response of tumours to dietary serine and glycine starvation. *Nature.* 2017-04-19 [PMID: 28425994] (WB, Mouse)

More publications at <http://www.novusbio.com/NBP1-32920>



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Products Related to NBP1-32920

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-78827-100ug	Recombinant Human PSAT1 His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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