

Rabbit anti-Human PSAT1 Polyclonal Antibody | anti-PSAT1 antibody

Anti-PSAT1 Antibody, Rabbit Polyclonal

CATALOG # AAA255187	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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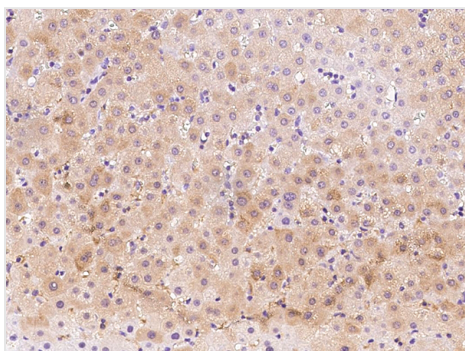
PRODUCT SYNONYMS

PSAT1; Polyclonal Antibody; Anti-PSAT1 Antibody; Rabbit Polyclonal; PSAT1 Antibody; Rabbit PAb; Antigen Affinity Purified; phosphoserine aminotransferase 1; Anti-EPIP Antibody; Anti-NLS2 Antibody; Anti-PSA Antibody; Anti-PSAT Antibody; Anti-PSATD Antibody; anti-PSAT1 antibody

PRODUCT SPECIFICATIONS

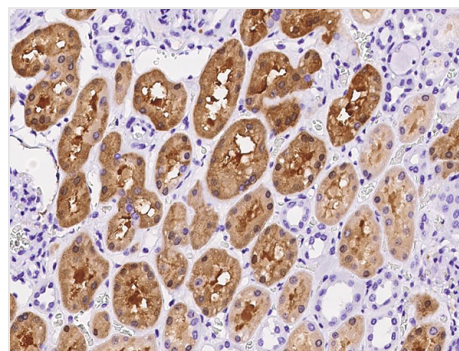
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PSAT1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PSAT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human PSAT1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human PSAT1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



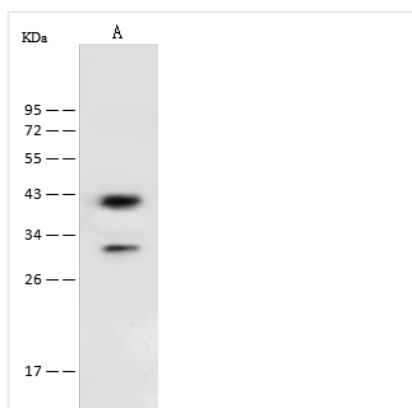
IHC (Immunohistochemistry)

Immunochemical staining of human PSAT1 in human liver with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human PSAT1 in human kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PSAT1 rabbit polyclonal antibody at 1:500 dilution
Lane A: H1299 Whole Cell Lysate
Lysates/proteins at 30 ug per lane.
Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
Developed using the ECL technique.
Performed under reducing conditions.
Predicted band size: 40 kDa
Observed band size: 40 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PSAT1 antibody	Phosphoserine aminotransferase 1 (PSAT1) is an enzyme implicated in serine biosynthesis, and its overexpression has been linked to cancer cell proliferation. Therefore, targeting PSAT1 is considered to be an anticancer strategy. PSAT1 is identified as the top-ranked upregulated gene in colorectal cancer (CRC) and was highly expressed in patients with the chemoresistant disease. The overexpression of PSAT1 is associated with colon cancer, non-small cell lung cancer, and breast cancer. Inhibiting PSAT1 might aid in the treatment of lung cancer, and PSAT1 may be a therapeutic target for lung cancer. PSAT1, which is overexpressed in estrogen receptor (ER)-negative breast cancers, is activated by ATF4 and promotes cell cycle progression via regulation of the GSK3beta/beta-catenin/cyclin D1 pathway.
References	Qian C, et al. (2017) Identification and validation of psat1 as a potential prognostic factor for predicting clinical outcomes in patients with colorectal carcinoma. <i>Oncol Lett</i> 14 (6): 8014-8020. Liao KM, et al. (2016) Overexpression of the psat1 gene in nasopharyngeal carcinoma is an indicator of poor prognosis. <i>J Cancer</i> 7 (9): 1088-1094. Jin HO, et al. (2019) Knock-down of psat1 enhances sensitivity of nsclc cells to glutamine-limiting conditions. <i>Anticancer Res</i> 39 (12): 6723-6730.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10863955
NCBI GeneID	29968
NCBI Accession #	NP_066977.1
NCBI GenBank Nucleotide #	NM_021154.4
UniProt Accession #	Q9Y617 ; Q5T7G5 ; Q5T7G6 ; Q96AW2 ; Q9BQ12
Molecular Weight	35,189 Da
NCBI Official Full Name	phosphoserine aminotransferase isoform 2
NCBI Official Synonym Full Names	phosphoserine aminotransferase 1
NCBI Official Symbol	PSAT1
NCBI Official Synonym Symbols	PSA; EPIP; NLS2; PSAT; PSATD
NCBI Protein Information	phosphoserine aminotransferase; endometrial progesterone-induced protein; phosphohydroxythreonine aminotransferase
UniProt Protein Name	Phosphoserine aminotransferase
UniProt Gene Name	PSAT1

UniProt Synonym Gene Names	PSA; PSAT
UniProt Entry Name	SERC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/psat1-antibody-immunohistochemistry-western-blot-elisa/255187>