

Human Phosphoserine aminotransferase (PSAT1)  
ELISA Kit

Catalog No: #EK8059

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Package Size: #EK8059-1 48T #EK8059-2 96T

Description

Product Name	Human Phosphoserine aminotransferase (PSAT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	EPIP; MGC1460; PSA; PSAT; endometrial progesterone-induced protein
Accession No.	Q99K85
Uniprot	Q99K85
GeneID	107272;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:78.1-5000 pg/mL
Sensitivity:19.5 pg/mL
Sample Type:Serum, Plasma, Other biological fluids
Sample Volume: 1-200 µL
Assay Time:1-4.5h
Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PSAT1 in samples. An antibody specific for PSAT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPSAT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSAT1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PSAT1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PSAT catalyzes the second step in the pathway, conversion of 3-phosphohydroxypyruvate into 3-phosphoserine. The full-length PSAT-beta transcript encodes a deduced 370-amino acid protein with a calculated molecular mass of 40 kD. PSAT-alpha lacks exon 8 and encodes a deduced 324-amino acid protein with a calculated molecular mass of 35.2 kD. Compared with PSAT-beta, PSAT-alpha lacks 46 amino acids. Both proteins contain a conserved binding domain for the cofactor pyridoxal 5-prime-phosphate (vitamin B6). PSAT-beta shares 92.4% amino acid similarity with its mouse homolog. PSAT-beta orthologs were present in all species examined, including plants, insects, and bacteria.

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Note: This product is for in vitro research use only