

Mouse Serine--pyruvate aminotransferase (AGXT) ELISA Kit



Catalog No: #EK7798

Orders: order@signalwayantibody.com

Package Size: #EK7798-1 48T #EK7798-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Serine--pyruvate aminotransferase (AGXT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	AGT; AGT1; AGXT1; PH1; SPAT; SPT; TLH6; L-alanine: glyoxylate aminotransferase 1 hepatic peroxisomal alanine:glyoxylate aminotransferase serine-pyruvate aminotransferase serine:pyruvate aminotransferase
Accession No.	O35423
Uniprot	O35423
GeneID	11611;
Storage	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. 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).

Application Details

Detect Range:62.5-4000 pg/mL

Sensitivity:15.6 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate AGXT in samples. An antibody specific for AGXT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAGXT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AGXT 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 AGXT bound in the initial step. The color development is stopped and the intensity of the color is measured.
Product Overview:Serine--pyruvate aminotransferase is an enzyme expressed only in the liver and the protein is localized mostly in the peroxisomes, where it is involved in glyoxylate detoxification. Mutations in this gene, some of which alter subcellular targeting, have been associated with type I primary hyperoxaluria.The human peroxisomal AGT showed about 78% amino acid sequence identity with rat mitochondrial AGT. The putative pyridoxal phosphate-binding lysine residue at position 209 is conserved. A comparison of the 5-prime sequences indicated that the N-terminal 22 amino acids of the rat translation product are absent from the human protein. The loss of this mitochondrial targeting sequence (MTS) signal during evolution may partly explain the species differences in intracellular localization of AGT.

Note: This product is for in vitro research use only