Human Serine--Pyruvate Aminotransferase (AGXT) ELISA Kit | AGXT elisa kit

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CATALOG #	REACTIVITY
AAA331156	**Human**

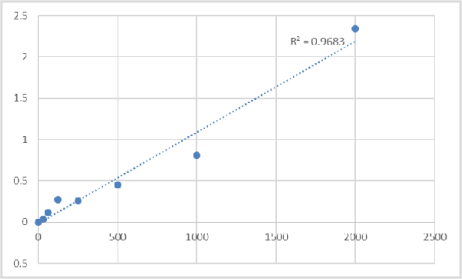
PRODUCT SYNONYMS

Serine--Pyruvate Aminotransferase (AGXT); Human Serine--Pyruvate Aminotransferase (AGXT) ELISA Kit; AGXT; AGT; AGT1; AGXT1; PH1; SPAT; SPT; TLH6; L-alanine: glyoxylate aminotransferase 1; hepatic peroxisomal alanine:glyoxylate aminotransferase; serine-pyruvate aminotransferase; serine:pyruvate aminotransfe; AGXT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serine--pyruvate aminotransferase (AGXT) ELISA Kit has high sensitivity and excellent specificity for detection of Human AGXT. No significant cross-reactivity or interference between Human AGXT and analogues was observed.
Sequence Length	392
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human Serine--pyruvate aminotransferase (AGXT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AGXT elisa kit	Description: This Human Serine--pyruvate aminotransferase (AGXT) ELISA Kit 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 any AGXT 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. Background: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557289
NCBI GeneID	189
NCBI Accession #	NP_000021
NCBI GenBank Nucleotide #	NP_000021.1
UniProt Accession #	P21549
NCBI Official Full Name	serine--pyruvate aminotransferase
NCBI Official Synonym Full Names	alanine--glyoxylate and serine--pyruvate aminotransferase
NCBI Official Symbol	AGXT
NCBI Official Synonym Symbols	AGT; PH1; SPT; AGT1; SPAT; TLH6; AGXT1
NCBI Protein Information	serine--pyruvate aminotransferase
UniProt Protein Name	Serine--pyruvate aminotransferase
UniProt Gene Name	**AGXT**
UniProt Synonym Gene Names	AGT1; SPAT; SPT; AGT

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/human-elisa-kits/serine-pyruvate-aminotransferase-agxt/331156