

Human Alanine aminotransferase 1 ELISA Kit | GPT elisa kit

Human Alanine aminotransferase 1 ELISA Kit

CATALOG #
AAA99568

REACTIVITY
Human

PRODUCT SYNONYMS

Alanine aminotransferase 1; Human Alanine aminotransferase 1 ELISA Kit; GPT/ALT1 (Alanine aminotransferase 1)/GPT 1/AAT1/Glutamic--pyruvic transaminase 1/Glutamate pyruvate transaminase 1/Glutamic--alanine transaminase 1/; GPT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Gpt. No significant cross-reactivity or interference between Gpt and analogues was observed.
Sequence Length	496
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	3.125-200mIU/ml
Sensitivity	1.875mIU/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Gpt were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Gpt were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a GPT ELISA KIT are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	mIU/ml	0	3.125	6.25	12.5	25	50	100	200
Y	OD450	0.084	0.256	0.334	0.555	1.044	1.81	1.993	2.439

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GPT elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Gpt antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Gpt antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Gpt amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Gpt can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885351
NCBI GeneID	2875
NCBI Accession #	NP_005300.1
NCBI GenBank Nucleotide #	NM_005309.2
Molecular Weight	54,637 Da
NCBI Official Full Name	alanine aminotransferase 1
NCBI Official Synonym Full Names	glutamic-pyruvate transaminase (alanine aminotransferase)
NCBI Official Symbol	GPT
NCBI Official Synonym Symbols	AAT1; ALT1; GPT1
NCBI Protein Information	alanine aminotransferase 1
UniProt Protein Name	Alanine aminotransferase 1
UniProt Gene Name	GPT
UniProt Synonym Gene Names	AAT1; GPT1; ALT1; GPT 1
UniProt Entry Name	ALAT1_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://stage.aaabiotech.com/gpt-human-elisa-kits/alanine-aminotransferase-1/99568>