

Mouse glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) ELISA Kit | GOT2 elisa kit

Mouse Aspartate Aminotransferase, AST ELISA Kit

CATALOG #
AAA80378

REACTIVITY
Mouse

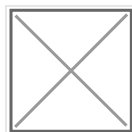
PRODUCT SYNONYMS

glutamic-oxaloacetic transaminase 2; mitochondrial (aspartate aminotransferase 2); Mouse Aspartate Aminotransferase; AST ELISA Kit; Mouse Aspartate Aminotransferase (AST) ELISA kit; FLJ40994; KAT4; KATIV; mitAAT; aspartate aminotransferase 2; kynurenine aminotransferase IV; GOT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse GOT2. No significant cross-reactivity or interference between Mouse GOT2 and analogues was observed.
Sequence Length	430
Samples	Serum, plasma, cell culture supernates
Detection Range	1.56 mIU/ml-100 mIU/ml
Sensitivity	0.39 mIU/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Transport
Protein Biological Process 3	Lipid transport
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GOT2 elisa kit	Introduction: Aspartate transaminase (AST) also called serum glutamic oxaloacetic transaminase (SGOT) or aspartate aminotransferase (ASAT/AAT) is similar to alanine transaminase (ALT) in that it is another enzyme associated with liver parenchymal cells. It facilitates the conversion of aspartate and alpha-ketoglutarate to oxaloacetate and glutamate, and vice-versa. AST is normally found in red blood cells, liver, heart, muscle tissue, pancreas, and kidneys. Low levels of AST are normally found in the blood. When body tissue or an organ such as the heart or liver is diseased or damaged, additional AST is released into the bloodstream. The amount of AST in the blood is directly related to the extent of the tissue damage. After severe damage, AST levels rise in 6 to 10 hours and remain high for about 4 days. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to AST. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for AST and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain AST, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of AST in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6754036
NCBI GeneID	14719
NCBI Accession #	NP_034455.1
NCBI GenBank Nucleotide #	NM_010325.2
UniProt Accession #	P05202; O09188; Q3TIP6; Q3UD91; Q5HZH5
Molecular Weight	47,411 Da
NCBI Official Full Name	aspartate aminotransferase, mitochondrial
NCBI Official Synonym Full Names	glutamate oxaloacetate transaminase 2, mitochondrial
NCBI Official Symbol	Got2
NCBI Official Synonym Symbols	Got-2; mAspAT; FABP-pm; AL022787
NCBI Protein Information	aspartate aminotransferase, mitochondrial; FABP-1; FABPpm; transaminase A; fatty acid-binding protein; kynurenine aminotransferase 4; kynurenine aminotransferase IV; kynurenine--oxoglutarate transaminase 4; kynurenine--oxoglutarate transaminase IV; mitochondrial aspartate aminotransferase; plasma membrane fatty acid binding protein; plasma membrane-associated fatty acid-binding protein
UniProt Protein Name	Aspartate aminotransferase, mitochondrial
UniProt Gene Name	Got2
UniProt Synonym Gene Names	Got-2; mAspAT; FABP-1; FABPpm
UniProt Entry Name	AATM_MOUSE

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.