

Mouse Aspartate Aminotransferase ELISA Kit | AST elisa kit

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CATALOG #
AAA83747

REACTIVITY
Mouse

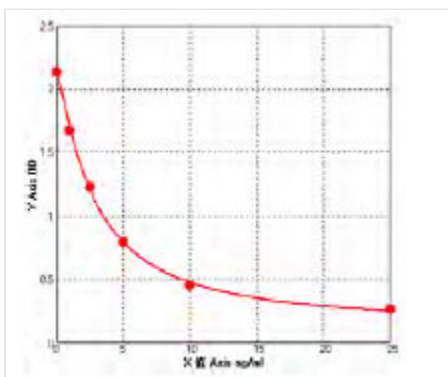
PRODUCT SYNONYMS

Aspartate Aminotransferase; Mouse Aspartate Aminotransferase ELISA Kit; AST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Stool
Intra-assay Precision	The reproducibility was calculated by measuring each of two samples 20 times by one technician within the same assay
Inter-assay Precision	The total reproducibility was independently measured by several different technicians on 3 different days.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AST elisa kit

Intended Uses: This assay is intended for the determination of beta-defensin 2 in stool. For research use only.

Principle of the Assay: The 13-defensin 2 in standards and samples is bound to an available excess of polyclonal antibodies against 13-defensin 2, which are immobilized on the surface of the microtiter plate. After a washing step, to remove all interfering substances, the determination of bound 13-defensin 2 is carried out by adding a polyclonal anti 13-defensin 2 antibody, which is horseradish peroxidase labeled. After a washing step to remove the unbound components, the peroxidase substrate tetramethylbenzidine is added. Finally, the enzymatic reaction is terminated by an acidic stop solution. The color changes from blue to yellow and the absorbance is measured in the photometer at 450 nm. The intensity of the yellow color proportional to the 13-defensin 2 concentration in the sample. A dose response curve of absorbance unit (optical density, OD at 450 nm) vs. concentration is generated using the values obtained from the standards!!
Background/Introduction: The beta-defensins are an integral part of the congenital immune system and contribute with their antimicrobial effect to the barrier function of intestinal epithelial cells. Defensins exert a variable degree of antimicrobial activity against bacteria, fungi, and some enveloped viruses. Vertebrate defensins are classified as alpha-or betadefensins, based on their pattern of disulfide bridges. Nine human defensins of epithelial origin have been found, three of them being beta-defensins (HBD-1,-2 and-3). The expression of beta-defensins is induced by the pro-inflammatory cytokines and also through microorganisms (e.g. F. coli, H. pylori or P. aeruginosa). A beta-defensin-2 deficiency can, for example, be observed in the intestinal mucous of subjects with Crohn's disease. The defense system of the mucous membrane is therefore restricted and allows an increased invasion of bacteria, which could possibly lead to a typical infection in Crohn's disease subjects. Whether the beta-defensin-2 deficiency could even play a role in the development of Crohn's disease is currently being researched. As is the possibility that it is the probiotic bacterium, which produces beta-defensin.

NCBI AND UNIPROT INFORMATION

NCBI GI #	351721732
NCBI GeneID	547792
NCBI Accession #	NP_001237987.1
NCBI GenBank Nucleotide #	NM_001251058.1
NCBI Official Full Name	aspartate aminotransferase
NCBI Official Symbol	LOC547792
NCBI Protein Information	aspartate aminotransferase; aspartate aminotransferase isozyme 5

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/ast-mouse-elisa-kits/aspartate-aminotransferase/83747>