

Human CHIT1 ELISA Kit | CHIT1 elisa kit

Human CHIT1 PicoKine ELISA Kit

CATALOG #
AAA125243

REACTIVITY
Human

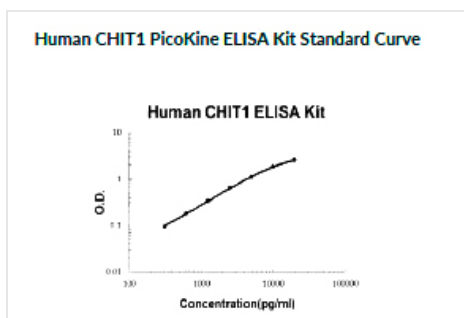
PRODUCT SYNONYMS

CHIT1; Human CHIT1 PicoKine ELISA Kit; Human CHIT1; chitinase 1; Chitotriosidase-1; Chitinase-1; CHIT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human 1118
Sequence Length	466
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Detection Range	312pg/ml-20000pg/ml
Sensitivity	<50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CHIT1 elisa kit	Principle of the Assay: The Picokine™ Human 1118 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human 1118 with a 96-well strip plate that is pre-coated with antibody specific for 1118. The detection antibody is a biotinylated antibody specific for 1118. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human 1118 with immunogen: Expression system for standard: NSO, Immunogen sequence: A22-N466. The kit is analytically validated with ready to use reagents. To measure Human 1118, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human 1118 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human 1118 in the sample.!!Background/Introduction: Chitotriosidase encoded by the CHIT1 gene is a member of the chitinase family that is selectively expressed in activated tissue macrophages. This gene is mapped to 1q32.1. Chitotriosidase is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens. Several alternatively spliced transcript variants have been described for this gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	37999493
NCBI GeneID	1118
UniProt Accession #	Q13231
NCBI Official Full Name	Chitotriosidase-1
NCBI Official Synonym Full Names	chitinase 1
NCBI Official Symbol	CHIT1
NCBI Official Synonym Symbols	CHI3; CHIT; CHITD
NCBI Protein Information	chitotriosidase-1
UniProt Protein Name	Chitotriosidase-1
UniProt Gene Name	CHIT1
UniProt Entry Name	CHIT1_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/human-elisa-kits/chit1/125243>