

Human Granzyme A PicoKine ELISA Kit | GZMA elisa kit

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CATALOG #
AAA46136

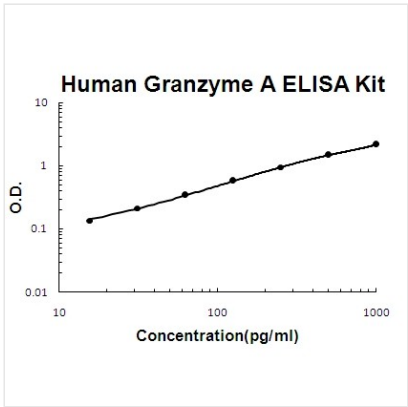
REACTIVITY
Human

PRODUCT SYNONYMS

Granzyme A PicoKine; Human Granzyme A PicoKine ELISA Kit; Granzyme A; CTL tryptase; CTLA3; Cytolytic t cell and natural killer cell specific trypsin like serine protease; Cytotoxic T lymphocyte associated serine esterase 3; Cytotoxic T lymphocyte proteinase 1; Cytotoxic T-lymphocyte proteinase 1; Fragmentin 1; Fragmentin-1; GRAA_HUMAN; Granzyme 1 cytotoxic T lymphocyte associated serine esterase 3; Granzyme A (Cytotoxic T lymphocyte associated serine esterase 3; Hanukah factor serine protease); Granzyme A (granzyme 1; cytotoxic T lymphocyte associated serine esterase 3); Granzyme A precursor; Granzyme-1; GZMA; H factor; Hanukah factor serine protease; Hanukkah factor; HF; HFSP; TSP1 ; granzyme A (granzyme 1; cytotoxic T-lymphocyte-associated serine esterase 3); GZMA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Granzyme A
Sequence Length	262
Assay Range	15.6pg/ml-1000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human Granzyme A in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, I29-V262
Assay Procedure Step 1	Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml human Granzyme A standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Granzyme A standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 89.5 376 525 97.6 368 567 Standard deviation 4.65 16.17 23.10 7.32 25.39 44.23 CV(%) 5.2 4.3 4.4 7.5 6.9 7.8
Sample Data	Concentration(pg/ml) 0 15.6 31.2 62.5 125 250 500 1000 O.D. 0.061 0.131 0.208 0.345 0.579 0.936 1.478 2.187
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Granzyme A PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for GZMA elisa kit	Principle of the assay: Human Granzyme A ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Granzyme A has been precoated onto 96-well plates. Standards(NSO, I29-V262) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Granzyme A is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human Granzyme A amount of sample captured in plate. Background: Granzyme A is a protein that in humans is encoded by the GZMA gene. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface "nonself" antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here is a T cell- and natural killer cell-specific serine protease that may function as a common component necessary for lysis of target cells by cytotoxic T lymphocytes and natural killer cells. GZMA induces caspase-independent apoptosis in a characteristic manner, except it causes a distinctive form of DNA damage: single-stranded DNA nicking. A target of GZMA is the SET complex, including HMGB2 and ANP32A.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453676
NCBI GeneID	3001
NCBI Accession #	NP_006135.1
NCBI GenBank Nucleotide #	NM_006144.3
UniProt Accession #	P12544; Q6IB36; A4PHN1
Molecular Weight	27,109 Da
NCBI Official Full Name	granzyme A
NCBI Official Synonym Full Names	granzyme A
NCBI Official Symbol	GZMA
NCBI Official Synonym Symbols	HFSP; CTLA3
NCBI Protein Information	granzyme A
UniProt Protein Name	Granzyme A

UniProt Gene Name	GZMA
UniProt Synonym Gene Names	CTLA3; HFSP; H factor; HF
UniProt Entry Name	GRAA_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/granzyme-a-picokine/46136>