

Human Granzyme A ELISA Kit | GZMA elisa kit

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CATALOG #
AAA263046

REACTIVITY
Human

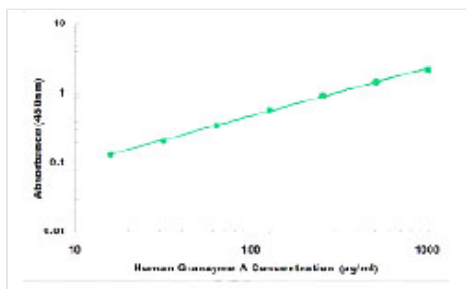
PRODUCT SYNONYMS

Granzyme A; Human Granzyme A ELISA Kit; CTLA3; HFSP; CTL tryptase; Cytotoxic T-lymphocyte proteinase 1; Fragmentin-1; Granzyme-1; Hanukkah factor; H factor; HF; GZMA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Granzyme A ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Granzyme A proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	262
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GZMA elisa kit	Principle of the Assay: The Human Granzyme A ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Granzyme A in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Human Granzyme A coated on a 96-well plate. Standards and samples are pipetted into the wells and Granzyme A present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Granzyme A antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Granzyme A bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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.