

ARG80171 Human Granzyme B ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80171-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80171-002	Standard (Lyophilized)	3 X 0.5 ng/vial	4°C
ARG80171-003	Standard diluent buffer	20 ml	4°C
ARG80171-004	Antibody conjugate concentrate	400 µl	4°C
ARG80171-005	Antibody diluent buffer	16 ml	4°C
ARG80171-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80171-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80171-008	20X Wash buffer	50 ml	4°C
ARG80171-009	TMB substrate	12ml	4°C (Protect from light)
ARG80171-010	STOP solution	12ml	4°C
ARG80171-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80171 Human Granzyme B ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Granzyme B in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with other soluble cytokine
Target Name	Granzyme B
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	CV: less than10%
Alternate Names	EC 3.4.21.79; CTLA-1; CSP-B; Granzyme B; CTLA1; CCPI; CGL-1; CGL1; Cytotoxic T-lymphocyte proteinase 2; T-cell serine protease 1-3E; HLP; CTSSL1; in-2; Cathepsin G-like 1; SECT; Granzyme-2; Human lymphocyte protein; C11; CSPB; Lymphocyte protease

Application Instructions

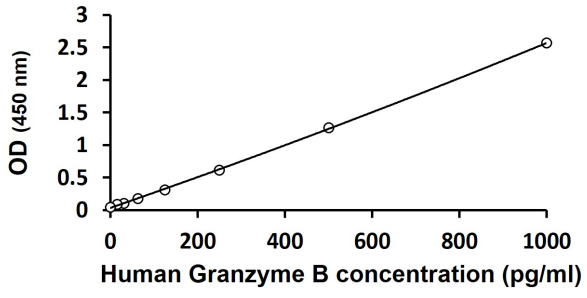
Assay Time	4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 3002 Human Swiss-port # P10144 Human
Gene Symbol	GZMB
Gene Full Name	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
Background	Granzyme B is a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Expression of this gene may be elevated in human patients with cardiac fibrosis. [provided by RefSeq, Sep 2016]
Function	Granzyme B is necessary for target cell lysis in cell-mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis. [UniProt]
Highlight	<p>Related products: Granzyme B antibodies: Granzyme B ELISA Kits:</p> <p>Related news: Examining CTL/NK-mediated cytotoxicity by ELISA Anti-SerpinB9 therapy, a new strategy for cancer therapy</p> <p>New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
Research Area	Cell Biology and Cellular Response kit; Cell Death kit; Immune System kit



ARG80171 Human Granzyme B ELISA Kit standard curve image

ARG80171 Human Granzyme B ELISA Kit results of a typical standard run with optical density reading at 450 nm.