

## Mouse Granzyme B ELISA Kit | GZMB elisa kit

Mouse Granzyme B PicoKine ELISA Kit

CATALOG #  
**AAA46764**

REACTIVITY  
**Mouse**

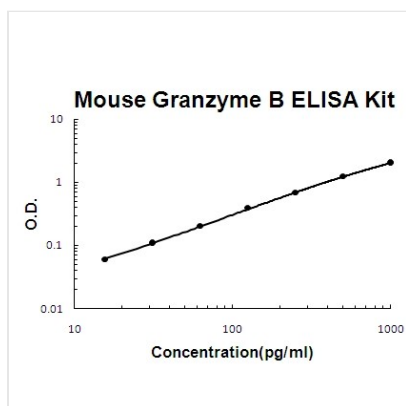
### PRODUCT SYNONYMS

Granzyme B; Mouse Granzyme B PicoKine ELISA Kit; C11; Cathepsin G-like 1; CGL1; CSPB; CTLA1; GRB; CTLA-1; CTSG1; Cytotoxic T-lymphocyte proteinase 2; EC 3.4.21.79; Fragmentin 2; Fragmentin-2; GRAB; Granzyme-2; GZMB; P10144; SECT; T cell serine protease 1 3E; T-cell serine protease 1-3E; Granzyme B(G; H); granzyme B (granzyme 2; cytotoxic T-lymphocyte-associated serine esterase 1); GZMB elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant Mouse Granzyme B                                                                                                              |
| Sequence Length         | 247                                                                                                                                                   |
| Samples                 | Cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA)                                                           |
| Assay Type              | Quantitative Sandwich                                                                                                                                 |
| Detection Range         | 15.6pg/ml-1000pg/ml                                                                                                                                   |
| Sensitivity             | <10pg/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 between 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, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                                   |

### IMAGES



Standard Curve (Sample)

Mouse Granzyme B PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GZMB elisa kit | <p>Principle of the Assay: The Mouse Granzyme B ELISA Kit was based on standard sandwich enzyme-linked immunosorbent assay technology. A monoclonal antibody from rat specific for Granzyme B has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: I21-S247) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Granzyme B 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 Mouse Granzyme B amount of sample captured in plate.</p> <p>Background: Granzyme B is a serine protease that in humans is encoded by the GZMB gene. Granzyme B is expressed by cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. CTL and NK cells share the remarkable ability to recognize specific infected target cells. They are thought to protect their host by inducing apoptosis of cells that bear on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response.</p> |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 7305123                                       |
| NCBI GeneID                      | 14939                                         |
| NCBI Accession #                 | NP_038570.1                                   |
| NCBI GenBank Nucleotide #        | NM_013542.3                                   |
| UniProt Accession #              | P04187                                        |
| Molecular Weight                 | 27,470 Da                                     |
| NCBI Official Full Name          | granzyme B(G,H) preproprotein                 |
| NCBI Official Synonym Full Names | granzyme B                                    |
| NCBI Official Symbol             | Gzmb                                          |
| NCBI Official Synonym Symbols    | GZB; CCP1; Ctla1; Ctla-1; AI553453; CCP-1/C11 |
| NCBI Protein Information         | granzyme B(G,H)                               |
| UniProt Protein Name             | Granzyme B(G,H)                               |
| UniProt Gene Name                | Gzmb                                          |
| UniProt Synonym Gene Names       | Ctla-1; Ctla1; CCP1                           |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/gzmb-mouse-elisa-kits/granzyme-b/46764>