

## Rat Granzymes B ELISA Kit | Gzms-B elisa kit

Rat Granzymes B ELISA Kit

CATALOG #  
**AAA16462**

REACTIVITY  
**Rat**

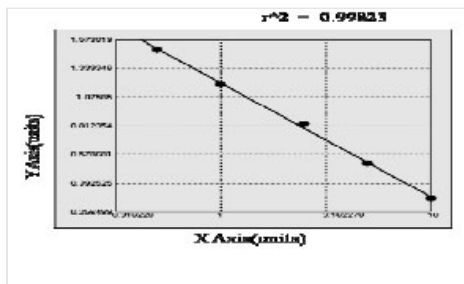
### PRODUCT SYNONYMS

Granzymes B; Rat Granzymes B ELISA Kit; Gzms-B elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Rat                                                                        |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| Assay Type              | Competitive                                                                |
| Detection Range         | 50-1000 pg/mL                                                              |
| Sensitivity             | 1.0pg/ml                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for Gzms-B elisa kit

**Intended Uses:** This GMB ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat GMB. This ELISA kit for research use only!

**Principle of the Assay:** GMB ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GMB antibody and an GMB-HRP conjugate. The assay sample and buffer are incubated together with GMB-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GMB concentration since GMB from samples and GMB-HRP conjugate compete for the anti-GMB antibody binding site. Since the number of sites is limited, as more sites are occupied by GMB from the sample, fewer sites are left to bind GMB-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GMB concentration in each sample is interpolated from this standard curve.

#### Product Categories/Family for Gzms-B elisa kit

Immunology

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 221625528                                                                                                                                                                                        |
| NCBI GeneID                      | 3002                                                                                                                                                                                             |
| NCBI Accession #                 | NP_004122.2                                                                                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_004131.4                                                                                                                                                                                      |
| Molecular Weight                 | 27,716 Da                                                                                                                                                                                        |
| NCBI Official Full Name          | granzyme B                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)                                                                                                                     |
| NCBI Official Symbol             | GZMB                                                                                                                                                                                             |
| NCBI Official Synonym Symbols    | HLP; CCPI; CGL1; CSPB; SECT; CGL-1; CSP-B; CTLA1; CTSG1                                                                                                                                          |
| NCBI Protein Information         | granzyme B; C11; CTLA-1; fragmentin 2; fragmentin-2; cathepsin G-like 1; human lymphocyte protein; T-cell serine protease 1-3E; cytotoxic serine protease B; cytotoxic T-lymphocyte proteinase 2 |
| UniProt Protein Name             | Granzyme B                                                                                                                                                                                       |
| UniProt Gene Name                | GZMB                                                                                                                                                                                             |
| UniProt Synonym Gene Names       | CGL1; CSPB; CTLA1; GRB; CTSG1; Lymphocyte protease; HLP                                                                                                                                          |
| UniProt Entry Name               | GRAB_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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