



# Mouse granzyme B (GZMB) ELISA Kit

<b>Product Code</b>	CSB-E08720m
<b>Abbreviation</b>	GZMB
<b>Protein Biological Process 1</b>	Apoptosis/Autophagy
<b>Target Name</b>	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
<b>Uniprot No.</b>	P04187
<b>Alias</b>	CCPI, CGL-1, CGL1, CSP-B, CSPB, CTLA1, CTSL1, HLP, SECT, T-cell serine protease 1-3E cathepsin G-like 1 cytotoxic serine protease B fragmentin 2 granzyme B
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Protein Biological Process 3</b>	Apoptosis
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	12.5 pg/mL-800 pg/mL
<b>Sensitivity</b>	3.12 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	Gzmb
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Mouse GZMB ELISA Kit was designed for the quantitative measurement of Mouse GZMB protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 12.5 pg/mL-800 pg/mL and the sensitivity is 3.12 pg/mL.

**Target Details**

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. This protein is crucial for the rapid induction of target cell apoptosis by CTL in



cell-mediated immune response.

## Product Precision

### **Intra-assay Precision (Precision within an assay): CV%<8%**

Three samples of known concentration were tested twenty times on one plate to assess.

### **Inter-assay Precision (Precision between assays): CV%<10%**

Three samples of known concentration were tested in twenty assays to assess.

## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse Gzms-B in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	102
1:1	Range %	95-106
	Average %	86
1:2	Range %	82-92
	Average %	94
1:4	Range %	89-98
	Average %	95
1:8	Range %	89-99

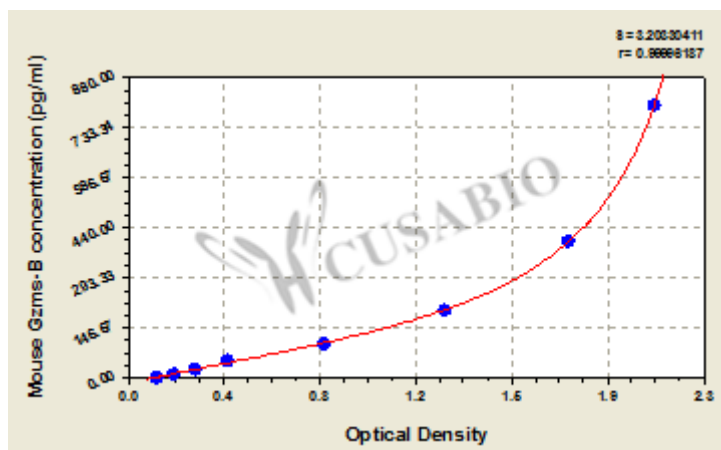
## Recovery

The recovery of mouse Gzms-B spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	103	96-107
EDTA plasma (n=4)	93	88-97

## Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
800	2.076	2.143	2.110	1.985
400	1.723	1.812	1.768	1.643
200	1.262	1.292	1.277	1.152
100	0.783	0.796	0.790	0.665
50	0.402	0.415	0.409	0.284
25	0.276	0.280	0.278	0.153
12.5	0.191	0.195	0.193	0.068
0	0.124	0.126	0.125	?

## Msds

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