



Mouse Tryptase beta-2(TPSB2) ELISA kit

Product Code	CSB-EL024128MO
Abbreviation	TPSB2
Target Name	tryptase beta 2
Uniprot No.	P21845
Alias	TPS2, tryptaseB, tryptaseC, OTTHUMP00000208944 mast cell tryptase beta II mast cell tryptase beta III tryptase II tryptase III tryptase beta 2 tryptase beta II tryptase beta III
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Tpsb2
Tag Info	quantitative
Protein Description	Sandwich

Description	This Mouse TPSB2 ELISA Kit was designed for the quantitative measurement of Mouse TPSB2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 pg/mL.
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Target Details	Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were
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once thought to represent two separate genes, beta II and beta III. Beta tryptases appear to be the main isoenzymes expressed in mast cells, whereas in basophils, alpha-tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.

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 TPSB2 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)
1:1	Average %	92
	Range %	87-98
1:2	Average %	96
	Range %	91-102
1:4	Average %	89
	Range %	85-94
1:8	Average %	93
	Range %	89-99

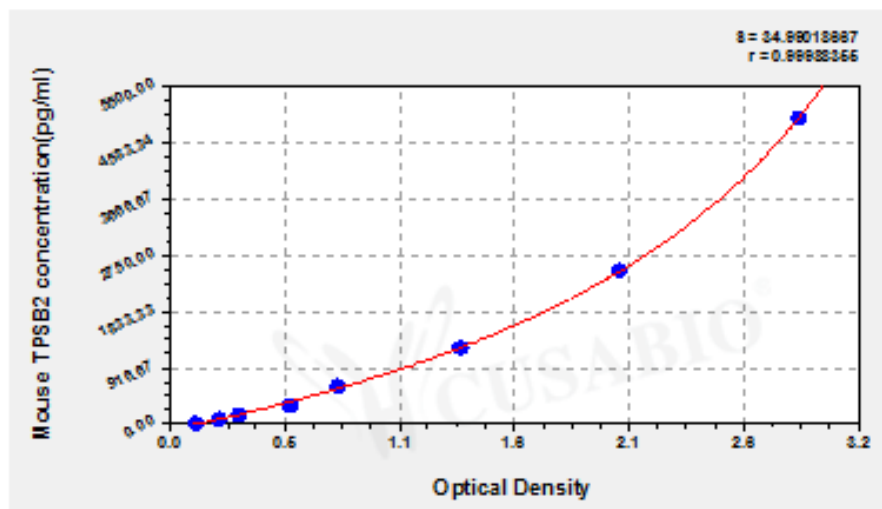
Recovery

The recovery of mouse TPSB2 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)	93	90-97
EDTA plasma (n=4)	90	86-94

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↕
5000↕	2.845 ↕	2.947 ↕	2.896 ↕	2.766 ↕
2500↕	2.019 ↕	2.136 ↕	2.078 ↕	1.948 ↕
1250↕	1.349 ↕	1.334 ↕	1.342 ↕	1.212 ↕
625↕	0.754 ↕	0.816 ↕	0.785 ↕	0.655 ↕
312↕	0.561 ↕	0.571 ↕	0.566 ↕	0.436 ↕
156↕	0.334 ↕	0.322 ↕	0.328 ↕	0.198 ↕
78↕	0.229 ↕	0.239 ↕	0.234 ↕	0.104 ↕
0↕	0.130 ↕	0.129 ↕	0.130 ↕	↕

Msds

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