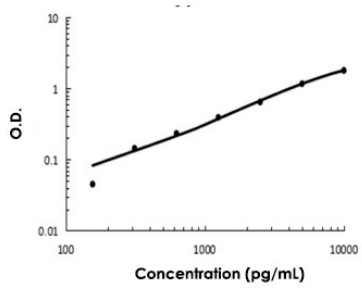
# TPSB2 (Human) ELISA Kit

Catalog # KA5074 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | TPSB2 (Human) ELISA Kit is a sandwich enzyme-linked immunosorbent assay for the quantitative measurement of human TPSB2. |
| **Suitable Sample** | Cell Culture Supernatant, Cell Lysates, Plasma (EDTA, Heparin), Serum |
| **Sample Volume** | 100 uL |
| **Label** | HRP-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 156 to 10000 pg/mL |
| **Reactivity** | Human |
| **Regulatory Status** | For research use only (RUO) |
| **Quality Control Testing** | Standard curve<br>The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed. |
| **Storage Instruction** | Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles. |

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## Applications

- Quantification

## Gene Info — TPSB2

| | |
|---|---|
| **Entrez GeneID** | 64499 |
| **Protein Accession#** | P20231 |
| **Gene Name** | TPSB2 |
| **Gene Alias** | TPS2, TPSB1, tryptaseC |
| **Gene Description** | tryptase beta 2 |
| **Omim ID** | 191081 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases a re enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known en dogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. T hese genes are characterized by several distinct features. They have a highly conserved 3' UTR a nd 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 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 implicate d as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [pro vided by RefSeq |
| **Other Designations** | beta II\|beta III\|lung tryptase\|mast cell protease I\|mast cell tryptase\|pituitary tryptase\|skin tryptase\|try ptase II\|tryptase III\|tryptase beta II\|tryptase beta III\|tryptaseB |

## Publication Reference

- Choroid plexus mast cells drive tumor-associated hydrocephalus.

  Yiye Li, Can Di, Shijian Song, Yubo Zhang, Yiwen Lu, Jianyou Liao, Bingxi Lei, Jian Zhong, Kaihua Guo, Nu Zhang, Shicheng Su

  Cell 2023 Dec; 186(26):5719-5738..

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## Disease

- Hypersensitivity

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