

**TPSAB1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12270b****Specification****TPSAB1 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q15661](#)**TPSAB1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 7177**Other Names**

Tryptase alpha/beta-1, Tryptase-1, Tryptase I, Tryptase alpha-1, TPSAB1, TPS1, TPS2, TPSB1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TPSAB1 Antibody (C-term) Blocking peptide - Protein Information****Name** TPSAB1**Synonyms** TPS1, TPS2, TPSB1**Function**

Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less

**TPSAB1 Antibody (C-term) Blocking peptide - Background**

Tryptases comprise a family of trypsin-like serineproteases, 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 once thought to represent two separate genes, alpha and beta 1. 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.

**TPSAB1 Antibody (C-term) Blocking peptide - References**

Lee, J.W., et al. Dig. Dis. Sci. 55(10):2922-2928(2010) Trivedi, N.N., et al. J. Allergy Clin. Immunol. 124(5):1099-1105(2009) Radhakrishnan, Y., et al. Biol. Reprod. 81(4):647-656(2009) Schiemann, F., et al. J. Immunol. 183(4):2223-2231(2009) Wei, Z.Y., et al. Fa Yi Xue Za Zhi 25(3):164-167(2009)

efficient toward small substrates  
(PubMed:<a href="http://www.uniprot.org/citations/18854315" target="\_blank">18854315</a>).

**Cellular Location**

Secreted. Note=Released from the secretory granules upon mast cell activation.

**Tissue Location**

Isoform 1 and isoform 2 are expressed in lung, stomach, spleen, heart and skin; in these tissues, isoform 1 is predominant. Isoform 2 is expressed in aorta, spleen, and breast tumor, with highest levels in the endothelial cells of some blood vessels surrounding the aorta, as well as those surrounding the tumor and low levels, if any, in mast cells (at protein level)

**TPSAB1 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)