

bs-2726R**[Primary Antibody]**

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TPSB2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) ELISA (1:5000-10000)
Clonality: Polyclonal		Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Pig, Sheep, Cow)
Target: TPSB2		Predicted MW.: 27 kDa
Immunogen: KLH conjugated synthetic peptide derived from mouse TPSB2: 201-276/276.		Subcellular Location: Secreted
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Trypsases comprise a family of trypsin-like serine proteases, the peptidase family S1. Trypsases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several trypsin 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 trypsinases 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 trypsinases appear to be the main isoenzymes expressed in mast cells, whereas in basophils, alpha-trypsinases predominate. Trypsases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.		

— SELECTED CITATIONS —

- **[IF=12.78]** Matsuda, Kenshiro, et al. "Mast cell hyperactivity underpins the development of oxygen-induced retinopathy." The Journal of Clinical Investigation 127.11 (2017). IHC ;Mouse. 28990934