bs-2725R **[Primary Antibody]**

Mast Cell Tryptase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7177 **SWISS:** Q15661

Target: Mast Cell Tryptase

Immunogen: KLH conjugated synthetic peptide derived from human TPSD1: 171-242/242.

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: 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. Although this gene may be an exception, most of the tryptase 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. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. This gene was once considered to be a pseudogene, although it is now believed to be a functional gene that encodes a protein. [provided by RefSeq, Jul 2008]

Applications: **ELISA** (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Pig, Cow, Horse)

Predicted MW.: 23 kDa

Subcellular Location: Secreted

SELECTED CITATIONS

- **[IF=5.6]** Jiabin Zhan. et al. CircMIRLET7BHG, upregulated in an m6A-dependent manner, induces the nasal epithelial barrier dysfunction in allergic rhinitis pathogenesis. INT IMMUNOPHARMACOL. 2023 Dec;125:111162 IF ;Mouse. 37976602
- **[IF=3.2]** Xunrui Hou. et al. Investigation of local stimulation effects of embedding PGLA at Zusanli (ST36) acupoint in rats based on TRPV2 and TRPV4 ion channels. FRONT NEUROSCI-SWITZ. 2024 Oct;18: IF ;Rat. 39445077
- **[IF=2.311]** Zhao Y et al. Interaction between regulatory T cells and mast cells via IL-9 and TGF-β productionOncol Lett.2020 Dec;20(6):360. IF ;Human. 33133260
- **[IF=0.4]** Zhaoxia KANG. et al.Effect of electroacupuncture on intestinal mucosal barrier function in functional dyspepsia rats based on TLR4/Myd88 pathway.JOURNAL OF ACUPUNCTURE AND TUINA SCIENCE. IHC ;Rat. 10.1007/s11726-025-1487-z