bsm-52533R **[Primary Antibody]**

Mast Cell Tryptase Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 3G3
GeneID: 7177
SWISS: Q15661
Target: Mast Cell Tryptase
Immunogen: A synthesized peptide derived from human Tryptase 1: 10-275/275.
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]

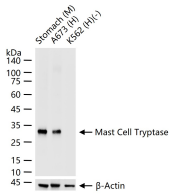
Applications: **WB** (1:500-5000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:200-1000)

Reactivity: Human, Mouse

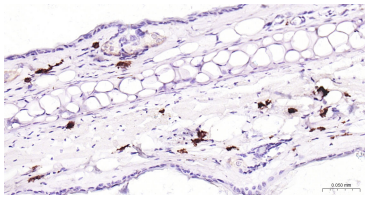
Predicted MW.: 23 kDa

Subcellular Location: Secreted

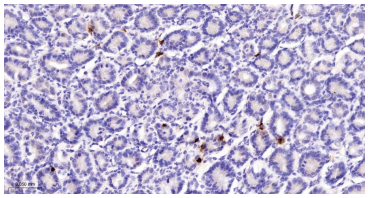
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Mast Cell Tryptase monoclonal antibody, unconjugated (bsm-52533R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (Mouse skin); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Mast Cell Tryptase) Monoclonal Antibody, Unconjugated (bsm-52533R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Mast Cell Tryptase) Monoclonal Antibody, Unconjugated (bsm-52533R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=7.3]** Yue Peng. et al. Distinct mast cell subpopulations within and around lymphatic vessels regulate lymph flow and progression of inflammatory-erosive arthritis in TNF-transgenic mice. FRONT IMMUNOL. 2023; 14: 1275871 IF ;Mouse.

38155962

- **[IF=3.8]** Shi Qianwen. et al. Serum metabolomics analysis reveals potential biomarkers of penicillins-induced fatal anaphylactic shock in rats. SCI REP-UK. 2024 Oct;14(1):1-12 IHC ;Rat. 39384950
- **[IF=3.9]** Abd-Elkareem Mahmoud. et al. The effect of norethisterone acetate on the uterine telocytes, immune cells and progesterone receptors in albino rats. SCI REP-UK. 2025 Mar;15(1):1-17 IHC ;Rat. 40089502
- **[IF=2.3]** Mahmoud Abd-Elkareem. et al.Uterine histomorphological and immunohistochemical investigation during the follicular phase of estrous cycle in Saidi sheep.BMC VETERINARY RESEARCH.2025 Jan 13;21(1):16. MCS ;Rabbit. 39806411