

## IHCAb™ Mast cell tryptase (BGT-MCT) mouse mAb

Cat #: B-IMW6194

Size: 100 µL

Storage: Store at -20°C. 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. 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 gene.

### Product Information

**Applications/Dilution:** IHC-p 1:100-500. IF 1:50-200

**Isotype/Source:** Mouse, Monoclonal/IgG1, Kappa

**Specificity:** This antibody detects endogenous levels of human Mast cell tryptase. Heat-induced epitope retrieval (HIER) Citrate buffer of pH6.0 was highly recommended as antigen repair method in paraffin section

**Subcellular Location:** Secreted. Released from the secretory granules upon mast cell activation

**Expression:** 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)

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Storage:** Store at -15°C to -25°C



Fig. Human stomach tissue was stained with Anti-Mast Cell Tryptase Antibody

**Note:**

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.