

Rat Mast Cell Tryptase (MCT) ELISA Kit | MCT elisa kit

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CATALOG #
AAA330171

REACTIVITY
Rat

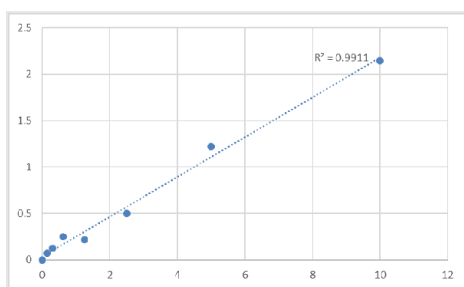
PRODUCT SYNONYMS

Mast Cell Tryptase (MCT); Rat Mast Cell Tryptase (MCT) ELISA Kit; TPSAB1; TPS1; TPS2; TPSB1; mast cell alpha tryptase; mast cell beta I tryptase; tryptase alpha; tryptase beta 1; tryptase beta I; tryptase-I; tryptase-III; MCT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Mast Cell Tryptase (MCT) ELISA Kit has high sensitivity and excellent specificity for detection of Rat TPSAB1. No significant cross-reactivity or interference between Rat TPSAB1 and analogues was observed.
Sequence Length	310
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Mast Cell Tryptase (MCT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MCT elisa kit	Description: This Rat Mast Cell Tryptase (MCT) ELISA Kit employs a two-site sandwich ELISA to quantitate TPSAB1 in samples. An antibody specific for TPSAB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPSAB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPSAB1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TPSAB1 bound in the initial step. The color development is stopped and the intensity of the color is measured. 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. TPSb2 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, beta II and beta III. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194239635
NCBI GeneID	54271
NCBI Accession #	NP_062195.2
NCBI GenBank Nucleotide #	NP_062195.2
UniProt Accession #	P27435
NCBI Official Full Name	tryptase
NCBI Official Synonym Full Names	tryptase alpha/beta 1
NCBI Official Symbol	Tpsab1
NCBI Official Synonym Symbols	Mcpt7; TPSB1; rMCP-7
NCBI Protein Information	tryptase
UniProt Protein Name	Tryptase
UniProt Gene Name	Tpsab1
UniProt Synonym Gene Names	Mcp7; Mcpt7; Tpsb1; rMCP-7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.