



Rat Anti-Mouse Mast Cell Protease-6 monoclonal antibody, clone 397939 (CABT-L3180)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects mouse Mast Cell Protease-6/Mcpt6 in direct ELISAs.
Target	Mouse Mast Cell Protease-6/Mcpt6
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Mast Cell Protease-6/Mcpt6; Ile32-Ser276
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	397939
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA, IP, Neut
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized
Size	100 µg, 500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

Preservative	None
Storage	Long time storage is recommended at -20°C.
Ship	Wet ice

BACKGROUND

Introduction	Tryptases are trypsin-like serine proteases, and beta tryptases appear to be the main isoenzymes expressed in mast cells. Mast Cell Protease-6 (MCP-6, Mcpt6, or Tpsb2) is one of beta tryptases produced from mouse mast cells. It is stored in secretory granules of mast cells, where it forms active tetramers with heparin proteoglycan. Because of the unique arrangement of the active sites in the tetramer, which are facing a narrow central pore, MCP-6 is resistant to macromolecular protease inhibitors. When mast cells are activated, MCP-6 is released along with other proteins in secretory granules, participating in provoking inflammatory conditions. MCP-6 has been implicated as a mediator in the pathogenesis of asthma and other allergic disorders in mouse models.
Keywords	Mast Cell Protease6;Mast Cell Protease-6;Mcpt6

GENE INFORMATION

Synonyms	Mast Cell Protease 6; Mast Cell Protease-6; Mcpt6
Entrez Gene ID	17229