

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Mast Cell Protease-6/Mcpt6 in direct ELISAs and Western blots. In Western blots, 10% cross-reactivity with recombinant mouse (rm) MCP-7 is observed and no cross-reactivity with rmMCP-1 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 286820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Mast Cell Protease-6/Mcpt6 Ile32-Ser276 Accession # P21845
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Tryptases are trypsin-like serine proteases, and β tryptases appear to be the main isoenzymes expressed in mast cells (1). Mast cell protease-6 (MCP-6, Mcpt6, or Tpsb2) is one of β 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, Mcpt6 is resistant to macromolecular protease inhibitors (2). When mast cells are activated, Mcpt6 is released along with other proteins in secretory granules, participating in provoking inflammatory conditions (3). Mcpt6 has been implicated as a mediator in the pathogenesis of asthma and other allergic disorders in mouse models.

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