

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Tryptase β -1/MCP-7/Mcpt7 in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) Tryptase α and rhTryptase β -2 is observed and no cross-reactivity with recombinant mouse MCPT-1 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 263019
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Tryptase β -1/MCP-7/Mcpt7 Ile29-Phe273 Accession # Q02844
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	Recombinant Mouse Tryptase β -1/MCP-7/Mcpt7 (Catalog # 1937-SE)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Tryptase β -1 is a serine protease with trypsin-like activity, which is sometimes also referred to as Mast Cell Protease 7 (MCP-7 or Mcpt7) (1). It is stored in the secretory granules of mouse mast cells (2). It exhibits anticoagulant activity due to its ability to degrade fibrinogen in the presence of the diverse array of protease inhibitors in plasma (3). The deduced amino acid (aa) sequence for mouse Tryptase β -1 consists of a signal peptide (aa 1-18), a pro region (aa 19-28) and the mature chain (aa 29-273).

References:

- McNeil, H.P. *et al.* (1992) Proc. Natl. Acad. Sci. USA **89**:11174.
- Matsumoto, R *et al.* (1995) J. Biol. Chem. **270**:19524.
- Huang, C. *et al.* (1997) J. Biol. Chem. **272**:31885.