

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Trypsin 3/PRSS3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, weak cross-reactivity with recombinant human (rh) Trypsin 3 is observed and no cross-reactivity with rhTrypsin 1 or rhTrypsin 2 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 419910
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Trypsin 3/PRSS3 Phe16-Asn246 Accession # NP_035775
Formulation	Lyophilized from a 0.2 µm 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 µm 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 µg/mL	Recombinant Mouse Trypsin 3/PRSS3 (Catalog # 3565-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. <ul style="list-style-type: none"> ● 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

Trypsin 3, encoded by the PRSS3 gene and also known as mesotrypsin is a serine protease and is one of three pancreatic Trypsins. It constitutes less than 10% of the total Trypsin content in normal pancreatic juice. Trypsin 3 is activated by enterokinase cleavage of the 8 aa pro region and secreted into the duodenum lumen. Trypsin 3 is highly resistance to polypeptide Trypsin inhibitors, and may degrade them in foods to facilitate digestion. The 223 amino acid mature mouse Trypsin 3 shares 78% and 96% aa identity with human and rat Trypsin 3, respectively.