Mouse Mast Cell Protease-11/Prss34 Antibody

Monoclonal Rat IgG_1 Clone # 451421

Catalog Number: MAB2857

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Mast Cell Protease-11/Prss34 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) MCP-1, rmMCP-6, or rmMCP-7 is observed.
Source	Monoclonal Rat IgG_1 Clone # 451421
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Mast Cell Protease-11/Prss34 Met20-Ser318 Accession # Q80UR4
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 Mast Cell Protease-11/Prss34 (Catalog # 2857-SE)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse Mast Cell Protease-11/Prss34 (Catalog # 2857-SE), see our available Western blot detection antibodies

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

Mast Cell Protease-11 (MCP-11) is encoded by Prss34, one of 13 genes on mouse chromosome 17A3.3 that correspond to functional trypsin-like serine proteases (1). The deduced amino acid sequence of mouse MCP-11 consists of 318 residues with a signal peptide (residues 1 to 19), a pro region (residue 20 to 34), and a catalytic domain (35 to 318). The mRNA is preferentially expressed in spleen and bone marrow. The amino acid sequence of mouse MCP-11 shares 84% and 60% identity with that of rat and dog, respectively. The human gene corresponding to Prss34 contains a mutation that leads to a premature translation termination codon, thus encoding a protein that is unlikely to be enzymatically active.

References:

1. Wong, G.W. *et al.* (2004) J. Biol. Chem. **279**:2438.

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