

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

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.

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