

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                  |
| <b>Source</b>             | Monoclonal Rat IgG <sub>1</sub> Clone # 451421                                                                                                                                                                                                                              |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Mast Cell Protease-11/Prss34<br>Met20-Ser318<br>Accession # Q80UR4                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

#### PRODUCT SPECIFIC NOTICES

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