

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MMP-7 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human MMP-7, recombinant mouse (rm) MMP-3, or rmMMP-8 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 704202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MMP-7 Met1-Leu264 Accession # Q10738
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	bEnd.3 mouse endothelioma cell line treated with Recombinant Mouse FGF basic (Catalog # 3139-FB), fixed with paraformaldehyde and permeabilized with saponin

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

MMP-7 (Matrilysin, 28 kDa) is the smallest member of the matrix metalloproteinases (MMP) family. It is expressed by normal and abnormal epithelial cells and is capable of digesting many proteins of the extracellular matrix. MMP-7 is implicated in the activation of Plasminogen, FasL, intestinal alpha-Defensin (important in innate host defense), and MMPs-1, -2, and -9, and in the release of TNF-alpha. Mouse MMP-7 is synthesized with a signal peptide and a propeptide; the preproMMP-7 shows 87% and 70% aa identity with rat and human preproMMP-7, respectively.

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