

Mouse MMP-7 PE-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 704202

Catalog Number: IC7170P

100 TESTS

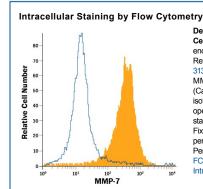
Species Reactivity	Mouse	

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	Phycoerythrin	
	Excitation Wavelength: 488 nm	
	Emission Wavelength: 565-605 nm	
Formulation	Supplied 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 Shee (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.

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	Recommended Concentration	Sample	
Intracellular Staining by Flow Cytometry	10 μL/10 ⁶ cells	See Below	



Detection of MMP-7 in bEnd.3 Mouse Cell Line by Flow Cytometry. bEnd.3 mouse endothelioma cell line treated with Recombinant Mouse FGF basic (Catalog # 3139-FB) was stained with Rat Anti-Mouse MMP-7 PE-conjugated Monoclonal Antibody (Catalog # IC7170P, filled histogram) or isotype control antibody (Catalog # IC013P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules

PREPARATION AND STORAGE

The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. Shipping

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and is capable of digesting a large series of proteins of the extracellular matrix including collagen IV and X, gelatin, casein, laminin, aggrecan, entactin, elastin and versican. MMP-7 is implicated in the activation of other proteinases such as plasminogen, MMP-1, MMP-2, and MMP-9. In addition to its roles in connective tissue remodeling and cancer, MMP-7 also regulates intestinal α-defensin activation in innate host defense, releases tumor necrosis factor-α in a model of herniated disc resorption, and cleaves FasL to generate a soluble form in a model of prostate involution. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site. Over amino acids (aa) 18-264, mouse MMP-7 shares 69% and 88% aa sequence identity with human and rat MMP-7, respectively.

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