

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects the pro and active forms of human MMP-10 in direct ELISAs Western blots. In direct ELISAs and Western blots, approximately 10-50% cross-reactivity with recombinant human (rh) MMP-3 and no cross-reactivity with rhMMP-1, -2, -7, -8, -9, -12, or -13 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 110316
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human MMP-10 Phe99-Cys476 Accession # P09238
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	MG-63 human osteosarcoma cell line fixed with paraformaldehyde and permeabilized with saponin

#### 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-10 (stromelysin 2) degrades a broad range of substrates including gelatin, collagen types III, IV and V, fibronectin, aggrecan, and pig cartilage proteoglycan. MMP-10 can activate other MMPs such as MMP-1 and MMP-8. MMP-10 is expressed in keratinocytes, T cells, menstrual endometrium and a few tumor samples. Structurally, MMP-10 may be divided into four distinct domains: a pro-domain which is cleaved upon activation, a catalytic domain containing the zinc binding site; a short linker region, and a carboxyl terminal hemopexin-like domain.

#### PRODUCT SPECIFIC NOTICES

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