

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MMP-12 Catalytic Domain. Does not recognize the C-terminal hemopexin-like domain of human MMP-12. Does not cross-react with recombinant human MMP-1, -2, -3, -7, -8, -9, -10, or -13.
Source	Monoclonal Mouse IgG _{2B} Clone # 82902
Purification	Protein A or G purified from ascites
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human MMP-12
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.
Immunoaffinity Purification	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

MMP-12, also known as macrophage elastase, is a zinc and calcium dependent endopeptidase expressed constitutively in macrophages and can be induced in monocytes. MMP-12 can degrade a broad spectrum of substrates, including type IV collagen, fibronectin, laminin, vitronectin, proteoglycans, chondroitin sulfate, myelin basic protein, α1-antitrypsin, and plasminogen. It can also activate MMP-2 and MMP-3. The MMP-12 precursor consists of a pro domain, a catalytic domain containing the zinc-binding site, and a C-terminal hemopexin-like domain.

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