Human MMP-11
Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 135421

Catalog Number: IC3657N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MMP-11 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 135421
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human MMP-11 Met1-Leu488 Accession # P24347
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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	HepG2 human hepatocellular carcinoma cell line 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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

MMP-11, also called Stromelysin-3, is a metalloproteinase secreted by cells of mesenchymal origin. Human MMP-11 contains a 31 amino acid (aa) signal sequence, a 65 aa propeptide cleaved at a furin consensus sequence, and a 390 aa mature sequence with zinc metalloproteinase and hemopexin-like domains. The human 45 kDa mature MMP-11 shows 89% aa identity with mouse. An inducible low-abundance 40 kDa isoform is a constitutively active intracellular form. MMP-11 is upregulated in stromal cells near many invasive carcinomas, where it can cleave IGFBP, allowing IGF-1 to promote tumor cell growth.

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bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449