

DESCRIPTION

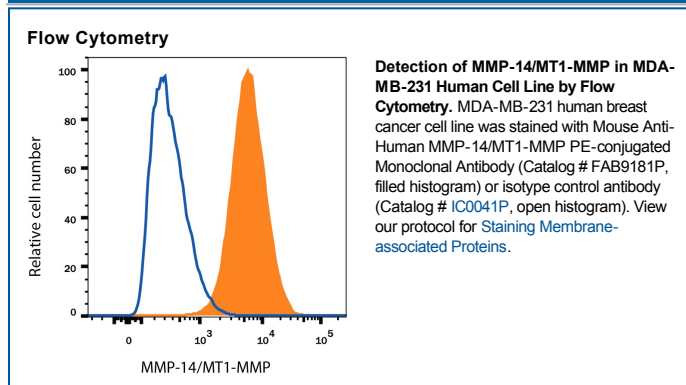
Species Reactivity	Human
Specificity	Detects human MMP-14/MT1-MMP in direct ELISAs and Western blots. Does not detect <i>E. coli</i> -expressed recombinant human MMP-14 catalytic domain (aa 112-284).
Source	Monoclonal Mouse IgG _{2B} Clone # 128527
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MMP-14/MT1-MMP Tyr112-Ala541 (predicted) Accession # P50281
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 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
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA



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-14/MT1-MMP (Matrix Metalloproteinase 14) is a member of the peptidase M10A family of enzymes. As such, it is one of some 25 zinc-dependent endopeptidases that are either soluble or membrane-bound. MMP-14 is expressed as a 63-64 kDa precursor that undergoes processing to generate either a 60 kDa catalytically-active transmembrane form, or a 55 kDa active soluble form. A number of substrates are reported for MMP-14, including Collagen I, II, and III, Laminin, Endoglin, Muc-1, Pro-MMP-13 and -2, and CD44. Molecules suggested to inhibit MMP-14 include TIMP-2, -3, and -4. Cells known to express MMP-14 include monocytes, platelets, osteoclasts, endothelial cells, fibroblasts, and muscle satellite cells. Over amino acids (aa) 112-284, human MMP-14 shares 98% aa sequence identity with mouse MMP-14.