

## Human/Mouse MMP-24/MT5-MMP APC-conjugated Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 143908

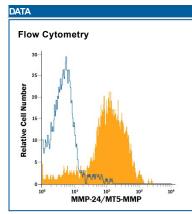
Catalog Number: FAB924A 100 TESTS

Species Reactivity	Human/Mouse		
Specificity	Detects mouse MMP-24/MT5-MMP in direct ELISAs and detects human and mouse MMP-24/MT5-MMP in Western blots. In Western blots, than 5% cross-reactivity with recombinant mouse (rm) MMP-3, rmMMP-9, and the catalytic domains of recombinant human MMP-14, 15, a 16 is observed.		
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 143908		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant mouse MMP-24/MT5-MMP Arg125-Gln296 Accession # Q9R0S2		
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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.		

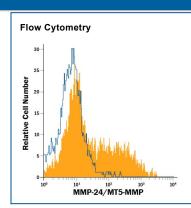
## APPLICATIONS

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.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below



Detection of MMP-24/MT5-MMP in bEnd.3 Mouse Cell Line by Flow Cytometry. bEnd.3 mouse endothelioma cell line was stained with Rat Anti-Human/Mouse MMP-24/MT5-MMP APC-conjugated Monoclonal Antibody (Catalog # FAB924A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). View our protocol for Staining Membrane-associated Proteins.



Detection of MMP-24/MT5-MMP in A172 Human Cell Line by Flow Cytometry. A172 human glioblastoma cell line was stained with Rat Anti-Human/Mouse MMP-24/MT5-MMP APC-conjugated Monoclonal Antibody (Catalog # FAB924A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). View our protocol for Staining Membrane-associated Proteins.

## 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-24, also known as MT5-MMP, is a 62-65 kDa member of the M10 metallopeptidase family, a subfamily of MMPs. It is a type I transmembrane glycoprotein that is converted into a 58 kDa active form (amino acids [aa] 129-618) following removal of its propeptide. Proteolytic cleavage after Arg554 generates a 52 kDa active, soluble form that undergoes further cleavage in to 27-34 kDa fragment. MMP-24 has restricted expression, being found on neurons, mast cells, neural stem cells and ependymal cells lining the ventricles of the brain. It is known to cleave chondroitin sulfate, dermatan sulfate, pro-MMP-2, and N-Cadherin. Its activation of MMP-2 likely contributes to neurite outgrowth, while its cleavage of N-Cadherin in-trans between neural stem cells and ependymal initiates stem cell expansion and proliferation. Over amino acids 125-296, mouse MMP-24 shares 100% and 99% aa sequence identity with rat and human MMP-24, respectively.

Rev. 10/20/2015 Page 1 of 1

