

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EMP. Stains human EMP3 cell transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2B} Clone # 439949
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human EMP3 Met1-Glu163 Accession # P54852
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

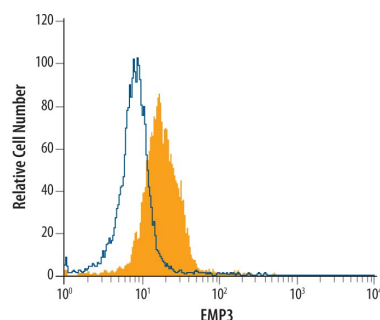
APPLICATIONS

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 µg/10 ⁶ cells	See Below
CytoF-rady	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

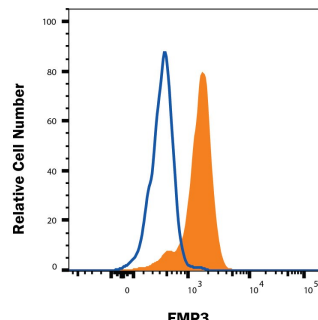
Intracellular Staining by Flow Cytometry



Detection of EMP3 in Human PBMCs by Flow Cytometry.

Human peripheral blood mononuclear cells were stained with Mouse Anti-Human EMP3 Monoclonal Antibody (Catalog # MAB4505, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')₂ Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of EMP3 in PBMC monocytes by Flow Cytometry.

PBMC monocytes were stained with Mouse Anti-Human EMP3 Monoclonal Antibody (Catalog # MAB4505, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed and permeabilized with Flow Cytometry Fixation Buffer (Catalog # FC004). View our protocol for [Staining Intracellular Molecules](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Epithelial membrane protein 3 (EMP3) is a multipass transmembrane protein in the peripheral myelin protein 22 family. It is expressed as a 20-25 kDa molecule depending on the degree of glycosylation. EMP3 interacts with the P2X7 purinergic receptor on monocytes. Its dysregulation is associated with glioma and neuroblastoma. Human EMP3 shares 93% aa sequence identity with mouse and rat EMP3.