

DESCRIPTION

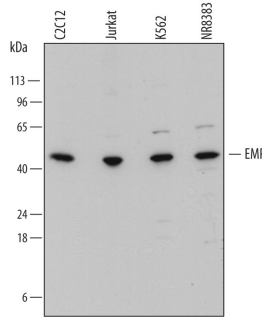
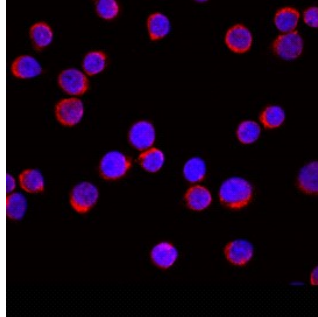
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat EMP/MAEA in Western blots. Detects recombinant human EMP/MAEA in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human EMP/MAEA Met12-Ser66 Accession # Q7L5Y9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human, Mouse, and Rat EMP/MAEA by Western Blot. Western blot shows lysates of C2C12 mouse myoblast cell line, Jurkat human acute T cell leukemia cell line, K562 human chronic myelogenous leukemia cell line, and NR8383 rat alveolar macrophage cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human EMP/MAEA Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7288) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for EMP/MAEA at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>EMP/MAEA in Jurkat Human Cell Line. EMP/MAEA was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Sheep Anti-Human EMP/MAEA Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7288) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

EMP (erythroblast macrophage protein), also called MAEA (macrophage-erythroblast attacher), is a 36-45 kDa membrane-associated protein in macrophages and erythroblasts within erythroblastic islands. EMP is essential to the process of nuclear extrusion in the transition of erythroblasts to reticulocytes. Within the region used as an immunogen, human EMP shares 98% amino acid (aa) sequence identity with mouse and rat EMP. Four potential isoforms of the canonical 396 aa form encode 360, 355, 328 and 245 aa, with insertions and deletions occurring after aa 150.