

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human EMR3 in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Mouse IgG <sub>2B</sub> Clone # 908235
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human EMR3 Met1-Tyr652 Accession # Q9BY15
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</b>	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human lung cancer tissue
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

**Flow Cytometry**

**Detection of EMR3 in Human Blood Monocytes by Flow Cytometry.** Human peripheral blood monocytes were stained with Mouse Anti-Human CD14 APC-conjugated Monoclonal Antibody (Catalog # FAB3832A) and either (A) Mouse Anti-Human EMR3 Monoclonal Antibody (Catalog # MAB8496) or (B) Mouse IgG<sub>2B</sub> Flow Cytometry Isotype Control (Catalog # MAB0041) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).

**Immunohistochemistry**

**EMR3 in Human Lung Cancer Tissue.** EMR3 was detected in immersion fixed paraffin-embedded sections of human lung cancer tissue using Mouse Anti-Human EMR3 Monoclonal Antibody (Catalog # MAB8496) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

EMR3 is a member of the class B seven-span transmembrane (TM7) receptor family. It is expressed predominantly by cells of the immune system, with highest levels in neutrophils, monocytes and macrophages. It may play a role in myeloid-myeloid interactions during immune and inflammatory responses. EMR3 upregulation in glioblastoma multiforme (GBM) is associated with poor survival and may be a potential therapeutic target.