**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human CD68/SR-D1 in direct ELISAs.

**Source**  
Monoclonal Mouse IgG2B Clone # 298807

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant human CD68/SR-D1  
Asn22-Ile320  
Accession # AAB25811

**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.

<table>
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<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td><strong>Immunocytochemistry</strong></td>
<td>8-25 μg/mL</td>
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<tr>
<td><strong>Intracellular Staining by Flow Cytometry</strong></td>
<td>2.5 μg/10⁶ cells</td>
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**CyTOF-ready**  
Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**DATA**

**Immunocytochemistry**

CD68/SR-D1 in Human PBMCs.  
CD68/SR-D1 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with PHA using Human CD68/SR-D1 Monoclonal Antibody (Catalog # MAB20401) at 25 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the plasma membrane and cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**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.  
- 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**

CD68, also called Scavenger Receptor D1 (SR-D1), is a type I transmembrane glycoprotein that belongs to the LAMP family of molecules. CD68 is expressed on monocytes and macrophages and serves as a scavenger receptor for oxidized LDL.