

DESCRIPTION

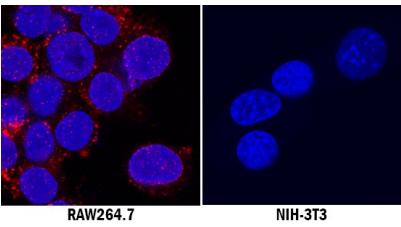
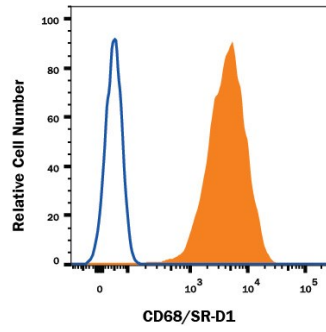
Species Reactivity	Mouse
Specificity	Detects mouse CD68 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2449C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived mouse CD68 Asp21-Pro282 Accession # P31996
Formulation	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
Immunocytochemistry	3-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Immunocytochemistry</p>  <p>CD68/SR-D1 in RAW 264.7 and NIH-3T3 Mouse Cell Lines. CD68/SR-D1 was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line (positive stain) and NIH-3T3 mouse embryonic fibroblast cell line (negative stain) using Rabbit Anti-Mouse CD68/SR-D1 Monoclonal Antibody (Catalog # MAB10114) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>	<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of CD68 in Raw264.7 Mouse Cell line by Flow Cytometry. Raw264.7 mouse cell line was stained with Rabbit Anti-Mouse CD68 Monoclonal Antibody (Catalog # MAB10114, filled histogram) or Normal Rabbit IgG Control (Catalog # MAB1050, open histogram) followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (1x) (Catalog # FC004) and permeabilized with ice-cold methanol. View our protocol for Staining Intracellular Molecules.</p>
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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

Macrosialin (CD68) is a macrophage-restricted glycosylated transmembrane protein. It belongs to the lamp family and carries out specialized functions in dedicated phagocytic cells. Macrosialin binds to tissue- and organ-specific lectins to allow homing of macrophages to specific targets. Its presence in macrophages is useful in diagnosing conditions related to proliferation or abnormality of these cells.