

DESCRIPTION

Species Reactivity	Human
Specificity	Stains human CD63 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 460305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human CD63 Met1-Met238 Accession # P08962
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 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	5-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 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>Intracellular Staining by Flow Cytometry</p> <p>Detection of CD63 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells were stained with Mouse Anti-Human CD63 Monoclonal Antibody (Catalog # MAB5048, filled histogram) or isotype control antibody (Catalog # MAB002, 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.</p>	<p>Immunocytochemistry</p> <p>CD63 in A549 Human Cell Line. CD63 was detected in immersion fixed A549 human lung carcinoma cell line using Mouse Anti-Human CD63 Monoclonal Antibody (Catalog # MAB5048) 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 cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</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

CD63, also known as LAMP-3 or ME491 (melanoma-associated antigen), is a 30-60 kDa member of the tetraspanin superfamily of protein trafficking proteins. CD63 is ubiquitously expressed and found in late endocytic vesicles, but following cell activation is also present on the plasma membrane. Interaction of CD63 with other membrane proteins or adaptors regulates cell activities such as adhesion, migration and degranulation. Extracellular regions of human CD63 share 67% and 65% amino acid sequence identity with mouse and rat CD63, respectively.