

DESCRIPTION

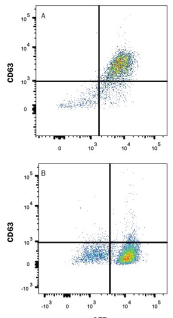
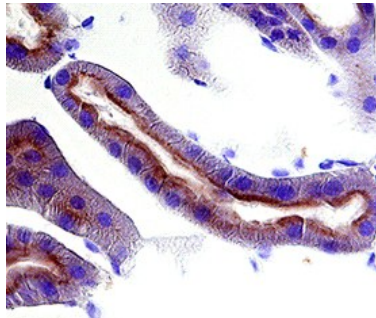
Species Reactivity	Mouse
Specificity	Detects mouse CD63 in direct ELISAs.
Source	Monoclonal Rat IgG ₁ Clone # 446703
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with mouse CD63 Met1-Met238 Accession # P41731
Formulation	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
Flow Cytometry	0.25 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	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>Flow Cytometry</p>  <p>Detection of CD63 in HEK293 Human Cell Line Transfected with Mouse CD63 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) mouse CD63 or (B) irrelevant transfectants and eGFP were stained with Rat Anti-Mouse CD63 Monoclonal Antibody (Catalog # MAB5417) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). Quadrant markers were set based on control antibody staining (Catalog # MAB005). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunohistochemistry</p>  <p>CD63 in Mouse Kidney. CD63 was detected in perfusion fixed frozen sections of mouse kidney using Rat Anti-Mouse CD63 Monoclonal Antibody (Catalog # MAB5417) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific labeling was localized to the plasma membrane of epithelial cells in convoluted tubules. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</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 mouse CD63 share 94% and 67% amino acid sequence identity with rat and human CD63, respectively.