

1B-343-C025

## Monoclonal Antibody to CD63 Biotin conjugated (0.025 mg)

Clone: MEM-259

Isotype: Mouse IgG1

Specificity: The antibody MEM-259 reacts with CD63 (LAMP-3), a 40-60 kDa tetraspan

glycoprotein expressed by granulocytes, platelets, T cells, monocytes/macrophages and endothelial cells. Cell surface exposition of CD63 is

usually activation-dependent.

Regulatory Status: RUO

Immunogen: HPB-ALL T cell line

Species Reactivity: Human

**Preparation:** The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions.

The reagent is free of unconjugated biotin.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

**Usage:** Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow

Cytometry.

**Expiration:** See vial label

**Lot Number:** See vial label

Background: CD63 (LAMP-3, lysosome-associated membrane protein-3), a glycoprotein of

tetraspanin family, is present in late endosomes, lysosomes and secretory vesicles of various cell types. It is also present in the plasma membrane, usually following cell activation. Hence, it has become an widely used basophil activation marker. In mast cells, however, CD63 exposition does not need their activation. CD63 interacts with integrins and affects phagocytosis and cell migration, it is also involved in H/K-ATPase trafficking regulation of ROMK1 channels. CD63 also serves as a T-cell costimulation molecule. Expression of CD63 can be used for

predicting the prognosis in earlier stages of carcinomas.



## PRODUCT DATA SHEET

## References:

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\*Cerny J, Feng Y, Yu A, Miyake K, Borgonovo B, Klumperman J, Meldolesi J, McNeil PL, Kirchhausen T: The small chemical vacuolin-1 inhibits Ca(2+)-dependent lysosomal exocytosis but not cell resealing. EMBO Rep. 2004 Sep;5(9):883-8. Erratum in: EMBO Rep. 2005 Sep;6(9):898.

\*Heneberg P, Riegerová K, Kučera P: Pimecrolimus Is a Potent Inhibitor of Allergic Reactions to Hymenopteran Venom Extracts and Birch Pollen Allergen In Vitro. PLoS One. 2015 Nov 12;10(11):e0142953.

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