

1A-343-T100

## Monoclonal Antibody to CD63 Allophycocyanin (APC) conjugated (100 tests)

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 cross-linked Allophycocyanin (APC) under

optimum conditions. The conjugate is purified by size-exclusion chromatography

and adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

**Usage:** The reagent is designed for Flow Cytometry analysis of human blood cells using

10 µl reagent / 100 µl of whole blood or 10° cells in a suspension.

The content of a vial (1 ml) is sufficient for 100 tests.

**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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\*Pfistershammer K, Majdic O, Stöckl J, Zlabinger G, Kirchberger S, Steinberger P, Knapp W: CD63 as an activation-linked T cell costimulatory element. J Immunol. 2004 Nov 15;173(10):6000-8.

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