

1F-226-T025

## Monoclonal Antibody to CD48 Fluorescein (FITC) conjugated (25 tests)

Clone: MEM-102

Isotype:

Specificity: The antibody MEM-102 reacts with CD48 antigen (Blast-1), a 40-47 kDa

GPI-anchored membrane protein (immunoglobulin supergene family) widely expressed on hematopoietic cells; it is negative on granulocytes, platelets and

erythrocytes.

Mouse IqG1

HLDA V; WS Code AS S014

Regulatory Status: RUO

Immunogen: Raji human Burkitt's lymphoma cell line

Species Reactivity: Human, Non-Human Primates

**Preparation:** The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under

optimum conditions. The reagent is free of unconjugated FITC 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

20 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension.

The content of a vial (0.5 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

Background: CD48 (Blast-1) belongs to the CD2 subset of the Ig superfamily, which includes

CD2, CD2F-10, CD58, CD84, CD150, CD229, CD244 and others. These molecules bind to the same or another members of their family, thus mediate homotypic or heterotypic adhesion. CD48 is a GPI-anchored protein broadly expressed on hematopoietic cells and serves as a high affinity ligand for 2B4 and low affinity ligand for CD2. 2B4-CD48 interaction among NK cells and NK-T cells regulates cell proliferation. Signaling through CD48 results in eosinophil activation

and CD48 expression is increased in several infectious diseases.



## PRODUCT DATA SHEET

## References:

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