

anti-human CD48

Monoclonal Antibody MEM-102 to CD48 (Human)

Cat-No: **21270481**

100 µg in 100 µl

Clone: MEM-102

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.

HLDA V; WS Code AS S014

Isotype subclass: Mouse IgG1

Immunogen: Raji human Burkitt's lymphoma cell line

Form: Purified from ascites by protein-A affinity chromatography.

Purity: > 98% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry
Immunoprecipitation
Western Blotting
Immunohistochemistry: (paraffin sections)

References:

Bazil V. et al., Folia Biol. (Praha) 35, 289 (1989).
Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).
Leucocyte Typing V. Schlossman S. et al. (Eds.), Oxford University Press (1995).
Korinek V. et al., Immunogenetics 33, 108 (1991).

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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