

**anti-human CD53 purified****Cat-No.: H12191**      **0.1 mg****Clone:** MEM-53**Specificity:**

The antibody reacts with CD53 antigen, a glycoprotein of 32-40 kDa belonging to tetraspans family (TM4SF). CD53 antigen is exclusively expressed on leucocytes (not present on platelets, red blood cells and non-hematopoietic cells). CD53 is important for signal transduction. CD53 cross-linking promotes activation of human B cells and rat macrophages. The antibody MEM-53 reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 kDa using endoglycosidase F).

**Isotype subclass:** Mouse IgG1**Form:** Purified from ascites by protein-A affinity chromatography.**Purity:** > 95% (by SDS-PAGE)**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.4).**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: (frozen sections) suitable for discrimination of lymphomas from other tumors

Functional Application: The antibody induces activation of monocytes and B lymphocytes.

**References:**

Bazil V. et al., Folia Biol. (Praha) 35, 289 (1989).

Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).

Angelisova P. et al., Immunogenetics 32, 281 (1990).

Olweus J. et al., J. Immunol. 151, 707 (1993).

Rasmussen A.-M. et al., J. Immunol. 153, 4997 (1994).

**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.

This material is offered for **research only**. Not for use in human. For in vitro use only.

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