anti-human CD53 no azide

Monoclonal Antibody MEM-53 to CD53 (Human)

Cat-No: **21270530** 100 µg in 100 µl

Clone: MEM-53

Specificity: The antibody MEM-53 reacts with CD53, a 32-40 kDa tetraspanin family glycoprotein exclusivelly expressed on leukocytes; it is not present on platelets, red blood cells and non-hematopoietic cells.
The antibody MEM-53 reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 kDa using endoglycosidase F).
HLDA IV; WS Code NL 59
HLDA V; WS Code B CD53.5
HLDA V; WS Code BP BP287
HLDA V; WS Code T T-096
HLDA V; WS Code X XB004

Isotype subclass: Mouse IgG1

Immunogen: Leukocytes of pacient suffering from a LGL-type leukemia.

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

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: sterile PBS (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:

- *Angelisova P and others: 1990;32(4):281-5.
- *Olweus J and others: 1993 Jul 15;151(2):707-16.
- *Mollinedo F and others: 1998 Jun;63(6):699-706.
- *Puls KL and others: 2002 Mar;14(3):249-58.
- *Kim TR and others: 2004 Feb 29;17(1):125-31
- *Yunta M, Lazo PA: 2003 Feb 27;22(8):1219-24.
- *Yunta M and others: 2003 Feb;63(2):534-42.

Background: CD53 is a tetraspanin family transmembrane glycoprotein expressed in the lymphoid-myeloid lineage. This molecule has been reported to form complexes with other leukocyte surface proteins such as CD2, CD19, CD21, MHC II, VLA-4 or tetraspanins CD37, CD81 and CD82, thus probably modulating various signaling processes. CD53 is involved in radioresistancy of tumour cells and its triggering has anti-apoptotic effect. In thymus, CD53 is up-regulated in response to positive selection signals during T cell development, and is strongly expressed upon macrophage exposure to bacterial lipopolysaccharide, whereas stimulation of neutrophils results in down-regulation of CD53 expression.

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