EXBIO Antibodies

PRODUCT DATA SHEET

11-227-C100

Monoclonal Antibody to CD53
Purified Antibody (0.1 mg)

Clone: MEM-53

Isotype: Mouse IgG1

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

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

Species Reactivity: Human

Application: Flow Cytometry
Recommended dilution:4 µg/ml
Immunoprecipitation
Western Blotting
Immunohistochemistry (frozen sections)
It is suitable for discrimination of lymphomas from other tumors.
Functional Application
The antibody MEM-53 induces activation of monocytes and B lymphocytes.

Purity: > 95% (by SDS-PAGE)

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

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Expiration: See vial label

Lot Number: See vial label

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.

For laboratory research only, not for drug, diagnostic or other use.

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