

11-227-C025

Monoclonal Antibody to CD53 Purified Antibody (0.025 mg)

Clone: MEM-53

Isotype: Mouse IqG1

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

Regulatory Status: RUO

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 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 freeze. Do not use after expiration date stamped on vial

label.

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.



PRODUCT DATA SHEET

References:

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