

11-341-C025

Monoclonal Antibody to CD44 Purified Antibody (0.025 mg)

Clone: MEM-263
Isotype: Mouse IgG1

Specificity: The antibody MEM-263 reacts with extracellular (N-terminal) domain of standard

CD44 (Phagocyte glycoprotein 1), a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and

hepatocytes.

HLDA III; WS Code T 155

Immunogen: COS-7 cells (African Green Monkey).

Species Reactivity: Human, Porcine, Canine (Dog)

Application: Flow Cytometry

Recommended dilution: 4 µg/ml

Immunoprecipitation Western Blotting

Recommended dilution: 2 µg/ml, 60 min on vertical incubator

Positive control:

Kg-1a human acute leukemia cell lysate JURKAT human leukemia T-cell lysate

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell

debris. Mix lysate with non-reducing SDS-PAGE sample buffer.

Application note: Non-reducing conditions. SDS-PAGE (6% separating gel).

Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Positive tissue: uterus, myometrium

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: CD44 is a transmembrane glycoprotein expressed on the surface of most cells,

which serves as a receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation and homing, it can thus serve e.g. as a modulator of macrophage recruitment in response to pathogen. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumour growth and metastasis,

antiapoptosis and directional motility of cancer cells.

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



PRODUCT DATA SHEET

References:

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