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Datasheet for ABIN457351
anti-CD44 antibody (FITC)

3 Images

1 Publication

Overview

| | |
|--------------|--|
| Quantity: | 100 tests |
| Target: | CD44 |
| Reactivity: | Human, Dog, Pig |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD44 antibody is conjugated to FITC |
| Application: | Flow Cytometry (FACS) |

Product Details

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|-----------------------------|---|
| Immunogen: | COS-7 cells (African Green Monkey). |
| Clone: | MEM-263 |
| Isotype: | 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. |
| Cross-Reactivity (Details): | Human, Porcine, Canine (Dog) |
| Purification: | Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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|-------------------|---|
| Target: | CD44 |
| Alternative Name: | CD44 (CD44 Products) |
| Background: | CD44 Molecule,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.,PGP-I, HUTCH-I, ECMR-III, Hermes antigen, Hyaluronate receptor, Heparan sulfate proteoglycan, Epican, MC56, MIC4, INLU, LHR |
| Gene ID: | 960 |
| UniProt: | P16070 |
| Pathways: | Glycosaminoglycan Metabolic Process , Autophagy , Negative Regulation of intrinsic apoptotic Signaling |

Application Details

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| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. |
| Comment: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

Handling

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| Reconstitution: | No reconstitution is necessary. |
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Handling

Handling Advice:

Do not freeze.

Avoid prolonged exposure to light.

Storage:

4 °C

Storage Comment:

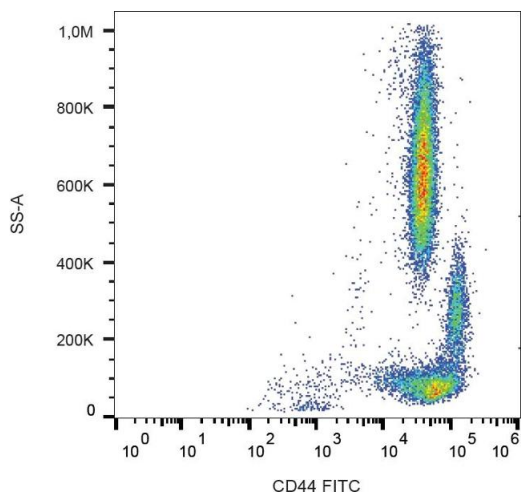
Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

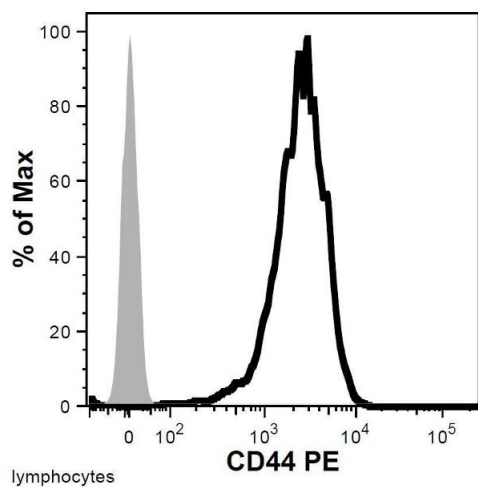
Krešić, Prišlin, Vlahović, Kostešić, Ljolje, Brnić, Turk, Musulin, Habrun: "The Expression Pattern of Surface Markers in Canine Adipose-Derived Mesenchymal Stem Cells." in: **International journal of molecular sciences**, Vol. 22, Issue 14, (2021) ([PubMed](#)).

Images



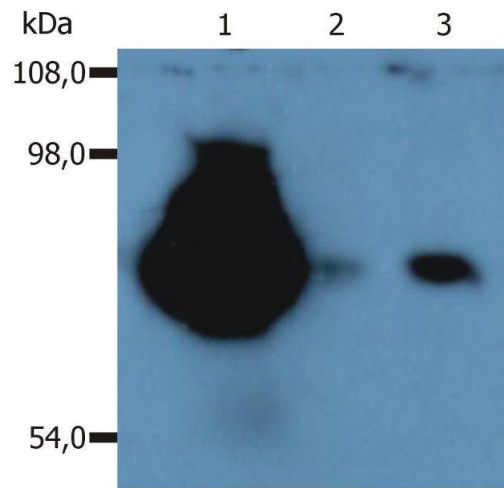
Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood using anti-CD44 (MEM-263) FITC conjugate.



Flow Cytometry

Image 2. Flow cytometry analysis of human peripheral blood (lymphocyte gate) using anti-CD44 () PE conjugate.



Western Blotting

Image 3. Western Blotting peripheral blood lymphocytes of various species using anti-CD44 (MEM-263). Lane 1: lysate of human PBL Lane 2: lysate of canine PBL Lane 3: lysate of porcine PBL