

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: MAL43-059 **Lot #:** 8C08122
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Description: MAb to CD43
Monoclonal Antibody to Human CD43

Specificity: Recognizes neuraminidase-sensitive epitope on CD43 (Leukosialin), a 95-135 kDa type I transmembrane glycoprotein (mucin-type) which is involved in lymphocyte activation. CD43 is expressed by platelets and at high levels on the surface of all leukocytes. It is negative on resting B lymphocytes and erythrocytes. MEM-59 activates T lymphocytes and also induces apoptosis in hemopoietic progenitor cells.

Host Animal: Mouse **Isotype:** IgG₁

Source: Ascites

Immunogen: Human T Lymphocytes

Format: Purified, Liquid

Purification: > 95% pure (SDS-PAGE). Protein A Chromatography

Concentration: 1.0 mg/mL

Buffer: Phosphate Buffered Saline, pH 7.4

Preservative: 15 mM Sodium Azide

Applications: Suitable for use in Flow Cytometry, Immunoprecipitation, Western Blot and Immunohistochemistry (paraffin sections). Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Store at 2-8°C. **DO NOT FREEZE!**

Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

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References:

The references listed below are for research purposes only:

1. Stefanova, I., et al., (1989), "Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol", Mol. Immunol., **26**(2): 153-161.
2. Deckert, M., et al., (1992), "CD59 molecule: a second ligand for CD2 in T cell adhesion", Eur. J. Immunol., **22**(11): 2943-2947.
3. Stefanova, I., et al., (1988), "Characterization of a 95 kDa human leucocyte sialoglycoprotein: its identity with CD43, gpL115, leukosialin and sialophorin", Folia Biol. (Praha), **34**(4): 255-265.
4. Leukocyte Typing IV, (1989), Knapp, W., et al., (Eds.), Oxford University Press.
5. Leukocyte Typing V, (1995), Schlossman, S., et al., (Eds.), Oxford University Press.
6. Alvarado, M., et al., (1995), "MEM-59 monoclonal antibody detects a CD43 epitope involved in lymphocyte activation", Eur. J. Immunol., **25**(4): 1051-1055.
7. Leukocyte Typing VI, (1997), Kishimoto, T., et al., (Eds.), Garland Publishing Inc.
8. Cermak, L., et al., (2002), "Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules", J. Biol. Chem., **277**(10), 7955-7961.

Quality Signature:



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