

Monoclonal antibody against human CD43 PE conjugated

Product Nos. ADG5043 and ADG5043L

Description

CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction with actin-binding proteins ezrin and moesin CD43 plays a regulatory role in remodeling T-cell morphology and regulates cell-cell interactions during lymphocyte traffic. CD43 signaling both enhances LFA-1 adhesiveness and counteracts LFA-1 induction via other receptors. Expression of CD43 causes induction of functionally active tumour suppressor p53 protein, but in case of p53 and ARF deficiency CD43 promotes tumour proliferation and viability. It appears to be an important modulator of leukocyte functions.

Properties

The monoclonal antibody ADG5043/L (clone MEM-59) is a murine monoclonal antibody, subclass IgG₁. The antibody has been purified from cell culture supernatant using Protein A affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes neuraminidase-sensitive epitope on CD43 (Leukosialin), a 95135 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.

Conjugation

The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Presentation

Vial containing 500 µl (ADG5043) or 2 ml (ADG5043L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 4°C. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

References

- 1.) Deckert, M. et al., Eur. J. Immunol. 22, 2943, 1992.
- 2.) Alvarado, M. et al., Eur. J. Immunol. 25, 1051, 1995.
- 3.) Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
- 4.) Cermak, L. et al., J. Biol. Chem. 227, 7955, 2002.

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