IMMBIOMED

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Monoclonal antibody against human CD43 (no azide)

Product Nos. ADG5040 and ADG5040L

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 actinbinding 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 defficiency CD43 promotes tumour proliferation and viability. It appears to be an important modulator of leukocyte functions.

Properties

The monoclonal antibody ADG5040/L (clone MEM-59) is a murine monoclonal antibody, subclass IgG_1. 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.

Presentation

Vial containing 100 µg /100 µl (ADG5040) or 300 µg/ 300 µl (ADG5040L) of purified antibody in PBS (sterile) pH 7.2. The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at -20°C. It is recommended to avoid freeze-thaw cycles. Should be handled under aseptic conditions. The reagent is stable until the expiry date stated on the vial label.

Applications

Functional studies.

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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The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.