

Monoclonal antibody against human CD9 (no azide)

Product Nos. ADG5001 and ADG5001L

Description

CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-associated tetraspanin-enriched signaling microdomains within the plasma membrane, forming complexes with each other as well as with integrins, membrane-anchored growth factors and other proteins. CD9 is involved in cell motility, osteoclastogenesis, neurite outgrowth, myotube formation, and sperm-egg fusion, plays roles in cell attachment and proliferation and is necessary for association of heterologous MHC II molecules on the dendritic cell plasma membrane which is important for effective T cell stimulation. CD9 is also considered as metastasis suppressor in solid tumors.

Properties

The monoclonal antibody ADG5001/L (clone MEM-16) is a murine monoclonal antibody, subclass IgG₁ recognizing human CD9. The antibody has been purified from cell culture supernatant using Protein A affinity chromatography, Purity > 95% (by SDS-PAGE)

Specificity

The antibody recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes. HLDA VI; WS Code P P-15.

Presentation

Vial containing 100 µg /100 µl (ADG5001) or 300 µg/300 ml (ADG5001L) 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 Application: The antibody induces FcγR-dependent platelet activation (aggregation).

References

Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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IMMUNOLOGIE • MOLEKULARBIOLOGIE
BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48
69221 Dossenheim

Tel +49 6221 868023
Fax +49 6221 8680255

www.loxo.de - info@loxox.de

Hinweis/Note:

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