

Monoclonal antibody against human CD9 Biotin conjugated

Product Nos. ADG5007 and ADG5007L

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 ADG5007/L (clone HI9a) is a murine monoclonal antibody, subclass IgG₁ recognizing human CD9. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

Specificity

The antibody HI9a recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and tivated T lymphocytes.

Presentation

Vial containing 50 µg /100 µl (ADG5007) or 150 µg/300 ml (ADG5007L) of purified antibody in PBS containing 0.09 % sodium azide (pH 7.2). The IgG concentration is 0.5 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store at 4 °C. For long-term storage aliquot and store at -20°C. It is recommended to avoid freeze-thaw cycles. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

Immunohistochemistry (acetone-fixed frozen sections)

References

Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing V : White Cell Differentiation Antigens. P : 246 Oxford University Press, New York.

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Hinweis/Note:

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