

Monoclonal antibody against human CD9 PE conjugated

Product Nos. ADG5010 and ADG5010L

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 ADG5010/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 cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

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 500 µl (ADG5010) or 2 ml (ADG5010L) of purified antibody in PBS containing 1% BSA and 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. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

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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