

## Monoclonal antibody against human CD9 PE conjugated

Product Nos. ADG5004 and ADG5004L

### 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 ADG5004/L (clone MEM-16) is a murine monoclonal antibody, subclass IgG<sub>1</sub> recognizing human CD9. The antibody has been purified from cell culture supernatant using Protein A affinity chromatography.

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

### 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 500 µl (ADG5004) or 2 ml (ADG5004L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). 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

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

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