

## Monoclonal antibody against human CD31 PE/Dy590 conjugated

Product Nos. ADG5020 and ADG5020L

### Description

**CD31** (platelet endothelial cell adhesion molecule-1, PECAM-1) is an inhibitory coreceptor involved in regulation of T cell and B cell signaling by a dual immunoreceptor tyrosine-based inhibitory motif (ITIM) that upon associated kinases-mediated phosphorylation provide docking sites for protein-tyrosine phosphatases. CD31 is expressed ubiquitously within the vascular compartment and is located mainly at junctions between adjacent cells. N-terminal Ig-like domain of CD31 is responsible for its homophilic binding, which plays an important role in cell-cell interactions. CD31 is a multifunctional molecule with diverse roles in modulation of integrin-mediated cell adhesion, transendothelial migration, angiogenesis, apoptosis, negative regulation of immunoreceptor signaling, autoimmunity, macrophage phagocytosis, IgE-mediated anaphylaxis and thrombosis. It is one of key regulatory molecules in vascular system.

### Properties

The monoclonal antibody ADG5020/L (clone MEM-05) is a murine monoclonal antibody, subclass IgG<sub>1</sub>. The antibody has been purified from ascites by protein-A affinity chromatography, Purity > 95% (by SDS-PAGE). The antibody reacts with CD31 (PECAM-1), a 130-140 kDa type I transmembrane glycoprotein expressed on monocytes, platelets, granulocytes, endothelial cells and stem cells of the myeloid lineage.

### Conjugation

The purified antibody is conjugated with tandem dye PE-Dynamics 590 (PE-Dy590) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

### Presentation

Vial containing 500 µl (ADG5020) or 2 ml (ADG5020L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. 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

Prager E, Staffler G, Majdic O, Saemann M, Godar S, Zlabinger G, Stockinger H.: Induction of hyporesponsiveness and impaired T lymphocyte activation by the CD31 receptor:ligand pathway in T cells. J Immunol. 2001 Feb 15;166(4):2364-71.

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