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Anti-Mouse Panendothelial Cell Antigen Clone MECA-32, Monoclonal Antibody

Catalog No. CMP027 **Quantity:** 100 µg

Description: Monoclonals were produced using mouse lymph-node stromal cells as the immunizing antigen. Rat IgG_{2a} antibody from hybridoma was purified from cell culture supernatant by Protein G chromatography. The MECA-32 antibody reacts with a dimer of 50-55–kDa subunits expressed on most or all endothelial cells in the embryonic and adult mouse, with the exception of cardiac and skeletal muscle and the brain. Recent reports have shown that the antigen is the Plasmalemma vesicle-associated protein (also named Plasmalemma vesicle protein-1, PV-1 or MECA-32 antigen), a type II membrane protein. It is a membrane-associated protein of caveolae and is found in fenestral and stomatal diaphragms in fenestrated endothelia and transendothelial channels. Normally in

Host Species: Rat.

Antigen: Mouse lymph-node stromal cells.

Purification: Protein G chromatography.

Stabilizer: None.

Buffer: PBS pH 7.4 w/o preservative.

Formulation: Lyophilized.

Reconstitution: When reconstituted in sterile water to a concentration of 1.0 mg/ml the antibody is stable for at least six weeks at 2-4°C.

Stability: The lyophilized antibody, thought stable at room temperature, is best stored desiccated below 0°C. Reconstituted anti-mouse MECA-32 is stable at 4°C for >one month or can be stored in working aliquots at -20°C for more than six months.

Specificity: The MECA-32 antibody reacts with the “Plasmalemma vesicle-associated protein”, a dimer of 50-55 kDa subunits expressed on most or all endothelial cells surfaces in the embryonic and adult mouse, with the exception of cardiac and skeletal muscle and the brain.

Applications: This antibody has been tested by immunofluorescent staining (= 1 µg/million cells) with flow cytometric analysis (FACS) to assure specificity and reactivity. Other reported applications include immunoprecipitation (IP), immunohistochemical staining (IHC) of acetone frozen sections, immunocytochemistry, and western blot analysis (WB). Optimal dilutions should be determined by each laboratory for each application.

Please note: always centrifuge vials before opening.

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