



RAT ANTI-MOUSE PECAM-1 [CD31] FITC-CONJUGATED MONOCLONAL ANTIBODY

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| CATALOG NUMBER: | CBL1337F | QUANTITY: | 500 µg |
| LOT NUMBER: | | CONCENTRATION: | 0.5 mg/mL |
| CLONE NAME: | 390 | HOST/ISOTYPE: | Rat IgG _{2a} Kappa |
| ALTERNATE NAMES: | CD31 | | |

BACKGROUND: PECAM-1 is a type I integral membrane glycoprotein, and a member of the immunoglobulin superfamily of cell surface receptors. PECAM-1 is constitutively expressed on the surface of endothelial cells where it is concentrated at cell junctions. PECAM-1 is also expressed at low levels on all leukocytes and platelets. Homotypic interaction of CD31 is important in cell-cell interaction, cell-matrix interaction and signal transduction.

SPECIFICITY: Specifically recognizes mouse PECAM-1, a 130-140 kDa type 1 integral membrane glycoprotein. This antibody has been shown to inhibit the aggregation of L cells transfected with a variant form of PECAM-1 (DeLisser, 1993).

APPLICATIONS: Flow Cytometry: ≤ 1 µg per 10⁶ cells in 100 µL volume
Immunohistochemistry: Acetone fixation on frozen tissue
Immunoprecipitation
Blocking
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Mouse. Reactivity with other species has not been determined.

IMMUNOGEN: Mouse leukocyte cell line 32D

PRESENTATION: Purified immunoglobulin conjugated to fluorescein. Liquid in phosphate buffered saline containing 0.1% sodium azide.

STORAGE/HANDLING: Maintain at 2°-8°C for up to 12 months from date of receipt.

REFERENCES: Baldwin, H. S. et al. (1994). Platelet endothelial cell adhesion molecule-1 (PECAM-1 / CD31): alternatively spliced, functionally distinct isoforms expressed during mammalian cardiovascular development. *Development* **120** : 2539-2553.

DeLisser, H. et al. (1993). Platelet endothelial cell adhesion molecule (CD31). *Curr Top Microbiol Immunol* **184** : 37-45.



Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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