



CELL LAB Rat Anti-Mouse CD31/PECAM-1

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732116	Purified (UNLB) Antibody	0.5 mg
732117	Fluorescein (FITC) Conjugate	0.5 mg
732118	Biotin (BIOT) Conjugate	0.5 mg
732119	Phycoerythrin (PE) Conjugate	0.1 mg
733290	Phycoerythrin (PE) Conjugate	0.2 mg
733291	Allophycocyanin (APC) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 390
Isotype: Rat (Lewis) IgG2a κ
Immunogen: Mouse leukocyte cell line 32D
Specificity: Mouse CD31/PECAM-1, Mr 130-140 kDa

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets.^{1,2} CD31 interacts homotypically in cell adhesion assays. Monoclonal antibody 390 inhibits the aggregation of L cells transfected with a variant form of CD31.²

APPLICATIONS

- Flow cytometry²
- Immunoprecipitation
- Immunohistochemistry (frozen sections)
- Blocking of cell adhesion

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
APC conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.

- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugates are supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Buck CA, Baldwin HS, DeLisser H, Mickanin C, Shen HM, Kennedy G, Chen A, Edelman JM, and Abelda SM. 1993. Cell adhesion receptors and early mammalian heart development: an overview. *Comptes Rendus de l'Academie des Sciences Serie III-Sciences de la Vie-Life Sciences*, 316:849-859.
2. DeLisser HM, Newman PJ, and Abelda SM. 1993. Platelet endothelial cell adhesion molecule (CD31). *Current Topics Microbiol Immunol*, 184:37-45.



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