

CD31 / PECAM-1 Monoclonal Mouse Antibody (1A10)

Product Description

CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 MAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.

Product attributes

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| Product attributes | |
|--------------------------------|--|
| Antibody number | #0846 |
| Antibody reactivity | CD31, PECAM-1 |
| (target) Antibody type | Primary |
| Host species | Mouse |
| Clonality | Monoclonal |
| Clone | 1A10 |
| Isotype | IgG1, kappa |
| Molecular weight | ~100 kDa (endothelium); ~130 kDa (platelets) |
| Synonyms | EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA' |
| Human gene symbol | PECAM1 |
| Entrez gene ID | 5175 |
| SwissProt | P16284 |
| Unigene | 376675 & 514412 |
| Immunogen | Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain downstream of the signal sequence of the CD31 (PECAM-1) |
| Antibody target cellular | Plasma membrane |
| Species reactivity | Human |
| Antibody application notes | For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry |
| Positive control | THP-1, Jurkat cells. Tonsil or Angiosarcoma. |
| Shipping condition | Room temperature |
| Storage Conditions | Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C |
| Regulatory status | For research use only (RUO) |
| Antibody/conjugate formulation | Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide |
| Shelf life | Guaranteed for at least 24 months from date of receipt when stored as recommended |
| Cell/tissue expression | Endothelial cells |
| Antibody research areas | Angiogenesis, Cancer |

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