

# Anti-CD31 (PECAM1) [JC70] rAb

**Catalogue number:** 154812

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:**

**Institute:** Absolute Antibody ; University of Oxford

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-CD31 (PECAM1) [JC70] rAb

**Alternate name:** Platelet/Endothelial Cell Adhesion Molecule 1; CD31 Antigen; EndoCAM; PECAM-1; GPIIA; PECA1; CD31/EndoCAM; CD31

**Class:** Recombinant

**Conjugate:** Unconjugated

**Description:** Recombinant monoclonal antibody directed against endothelial cell marker (CD31, JC70), capable of evaluating tumour angiogenesis and angiosarcoma more effectively than anti-FVIII-Reg.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Cell membrane preparation from the spleen of a patient with hairy cell leukaemia

**Immunogen UNIPROT ID:** P16284

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** PECAM1 (CD31)

**Target alternate names:**

**Target background:** CD31/JC70, also known as platelet endothelium cell adhesion molecule (PECAM-1), is a 130kDa transmembrane glycoprotein found on cell surface of endothelial cells, platelets, macrophages and Kupffer cells, granulocytes, lymphocytes (T cells, B cells, and NK cells), megakaryocytes, and osteoclasts. PECAM1 is a member of the immunoglobulin (Ig) superfamily. It is also a major constituent of the endothelial cell intercellular junction and expressed in certain cancers. PECAM1 is involved in cell signalling and adhesion, trans-endothelial migration of leukocytes, angiogenesis, and integrin activation. PECAM1 is a specific marker of endothelial differentiation. This is a recombinant version of the anti-CD31 monoclonal antibody. Anti-CD31 be used to identify the presence of endothelial cells in a histological tissue sample to determine the degree of angiogenesis (which in turn can determine tumour severity/growth). Anti-CD31 stains a fixation resistant epitope on endothelial cells in both benign and malignant endothelial cells in angiosarcomas with more consistency than monoclonal or polyclonal antibodies to FV111-Rag . C70 is a good marker of endothelial cells in paraffin sections. Anti-CD31 was created to recognise membrane bound glycoprotein CD31/JC70.

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

Store at -20° C frozen. Avoid repeated freeze / thaw cycles

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Bianchi et al. 2012. Diabetes Metab Res Rev. 28(2):156-63. PMID: 21922635. ; Detection of T and B cells in many animal species using cross-reactive anti-peptide antibodies. ; Doursout et al. 2013. J Interferon Cytokine Res. 33(7):376-83. PMID: 23600861. ; Inflammatory cells and cytokines in the olfactory bulb of a rat model of neuroinflammation ; insights into neurodegeneration? ; Interleukin-10 haplotype may predict survival and relapse in resected non-small cell lung cancer. ; Jones et al. 1993. J Immunol. 150(12):5429-35. PMID: 8515069. ; Oligodeoxynucleotide IMT504: lack of effect on immune parameters during islet regeneration in single dose streptozotocin-induced diabetes. ; Wang et al. 2012. PLoS One. 7(7):e39525. PMID: 22848356.

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