

## Anti-CD31 [JC70] Bulk Size Ab01338-13.12-BT

Developed in partnership with Ximbio ([www.ximbio.com](http://www.ximbio.com)).

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG4-S228P, Kappa

**Clone Number:** JC70

**Alternative Name(s) of Target:** PECAM1; Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA'; PECA1; JC/70A

**UniProt Accession Number of Target Protein:** P16284

**Published Application(s):** FACS, WB, IF, IHC

**Published Species Reactivity:** Rabbit, Human, Mouse

**Immunogen:** This antibody was raised by immunising Balb/c mice with membrane preparation from a spleen affected by hairy cell leukaemia.

**Specificity:** This antibody recognises CD31 (PECAM1) which is a member of the immunoglobulin superfamily and is expressed at various circulating cells, such as neutrophils, monocytes, platelets as well as on endothelial cells. CD31 is a cell adhesion molecule and is involved in the leukocyte transendothelial migration during inflammation.

**Application Notes:** This antibody recognises CD31 which is widely expressed on endothelial cells (Parums et al., 1990) and JC70 is a good marker of endothelial cells in paraffin sections. It may be used in the identification and characterisation of benign and malignant human vascular disorders (Parums et al., 1990). For instance, one group utilised this antibody to analyse formalin-fixed paraffin-embedded rat heart tissue in a study investigating relation between cisplatin and oxidative stress (Stojic et al., 2018). Similarly, another group labelled pancreatic tumour tissue samples against CD31 while studying factors influencing development of pancreatic cancer-associated thrombosis (Woei-A-Jin et al., 2016). Finally, Kandemir and colleagues (2012) stained formalin-fixed and paraffin-embedded samples of cutaneous Kaposi sarcoma in order to characterise its immunohistochemical profile.

**Antibody First Published in:** Parums et al. JC70: a new monoclonal antibody that detects vascular endothelium associated antigen on routinely processed tissue sections. J Clin Pathol. 1990 Sep;43(9):752-7. PMID:2212067

**Note on publication:** This article describes generation and characterisation of JC70 antibody.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.