

CD 31

Cat.No. 351 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: 1 : 500 IHC: not tested yet IHC-P/FFPE: 1 : 200 up to 1 : 500
Immunogen	Recombinant protein corresponding to AA 26 to 601 from human CD31 (UniProt Id: P16284)
Reactivity	Reacts with: human (P16284). No signal: mouse (Q08481). Other species not tested yet.
Specificity	Specific for CD 31; detects all five isoforms.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

CD 31 or **PECAM 1** is a cell adhesion molecule that contains a single trans-membrane domain and 6 Ig-like C2-type (immunoglobulin-like) domains. It is expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells. Five isoforms (long-form and δ 12, 13, 14 and 15) with differential expression patterns have been described, so far.

Selected References SYSY Antibodies

Fibrinogen Induces Microglia-Mediated Spine Elimination and Cognitive Impairment in an Alzheimer's Disease Model.
Merlini M, Rafalski VA, Rios Coronado PE, Gill TM, Ellisman M, Muthukumar G, Subramanian KS, Ryu JK, Syme CA, Davalos D, Seeley WW, et al.
Neuron (2019) : . ; **tested species: human**

Selected General References

PECAM-1: regulator of endothelial junctional integrity.
Privratsky JR, Newman PJ
Cell and tissue research (2014) 355(3): 607-19.

PECAM-1: old friend, new partners.
Ilan N, Madri JA
Current opinion in cell biology (2003) 15(5): 515-24.

Biochemical characterization of PECAM-1 (CD31 antigen) on human platelets.
Metzelaar MJ, Korteweg J, Sixma JJ, Nieuwenhuis HK
Thrombosis and haemostasis (1991) 66(6): 700-7.

PECAM-1 (CD31) cloning and relation to adhesion molecules of the immunoglobulin gene superfamily.
Newman PJ, Berndt MC, Gorski J, White GC, Lyman S, Paddock C, Muller WA
Science (New York, N.Y.) (1990) 247(4947): 1219-22.