

## CD 31

**Cat.No. 351 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)**

### Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> not recommended <b>IP:</b> not tested yet <b>ICC:</b> 1 : 500 <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not recommended <b>FACS:</b> yes
Clone	10F7
Subtype	IgG2a (κ light chain)
Immunogen	Recombinant protein corresponding to AA 26 to 601 from human CD31 (UniProt Id: P16284)
Epitop	Epitop: AA 28 to 601 from human CD31 (UniProt Id: P16284)
Reactivity	Reacts with: human (P16284). Other species not tested yet.
Specificity	Recognizes all CD 31 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

Efficient immunoaffinity chromatography of lymphocytes directly from whole blood.  
Mohr F, Przbilla S, Leonhardt F, Stemberger C, Dreher S, Müller TR, Fräßle SP, Schmidt GP, Kiene ML, Stadler H, Busch DH, et al.  
Scientific reports (2018) 8(1): 16731. **FACS; 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.