

CD 34

Cat.No. 370 011; 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 ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not recommended FACS: yes
Clone	171G9
Subtype	IgG2b (κ light chain)
Immunogen	Recombinant protein corresponding to AA 32 to 291 from human CD34 (UniProt Id: P28906)
Epitop	Epitop: AA 32 to 291 from human CD34 (UniProt Id: P28906)
Reactivity	Reacts with: human (P28906). Other species not tested yet.
Specificity	Specific for CD 34.

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

CD 34 is a single pass trans-membrane glycoprotein that localizes to the surface of hematopoietic progenitor cells. The presence of CD 34 on non-hematopoietic cells in various tissues has been linked to progenitor and adult stem cell phenotypes.

Selected General References

Highly Efficient Neural Differentiation of CD34-Positive Hair-Follicle-Associated Pluripotent Stem Cells Induced by Retinoic Acid and Serum-Free Medium.

Sagha M, Najafzadeh N

Methods in molecular biology (Clifton, N.J.) (2016) 1453: 161-72.

A comparative study of endothelial cell markers expressed in chronically inflamed human tissues: MECA-79, Duffy antigen receptor for chemokines, von Willebrand factor, CD31, CD34, CD105 and CD146.

Middleton J, Americh L, Gayon R, Julien D, Mansat M, Mansat P, Anract P, Cantagrel A, Cattan P, Reimund JM, Aguilar L, et al. The Journal of pathology (2005) 206(3): 260-8.

CD34 expression as a novel marker of transformed mesangial cells in biopsied glomerular diseases.

Naruse K, Fujieda M, Miyazaki E, Hayashi Y, Kuroda N, Nakayama H, Kiyoku H, Hiroi M, Kurashige T, Enzan H

The Journal of pathology (1999) 189(1): 105-11.

The hemopoietic stem cell antigen, CD34, is encoded by a gene located on chromosome 1.

Molgaard HV, Spurr NK, Greaves MF

Leukemia (1989) 3(11): 773-6.

Structural and partial amino acid sequence analysis of the human hemopoietic progenitor cell antigen CD34.

Sutherland DR, Watt SM, Dowden G, Karhi K, Baker MA, Greaves MF, Smart JE

Leukemia (1988) 2(12): 793-803.