

CD34 Rabbit pAb

CD34 Rabbit pAb Catalog # AP52283

Product Information

Application WB
Primary Accession P28906
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 40716
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human CD34

Epitope Specificity 201-300/382

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Membrane; Single-pass type I membrane protein.

SIMILARITY Belongs to the CD34 family.

Post-translational Highly glycosylated.Phosphorylated on serine residues by PKC.

modifications
Important Note
This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions The highly glycosylated 75-120 kD antigen CD34 is possibly an adhesion

molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C, suggesting a putative role in signal transduction. Two isoforms of CD34 have been reported to be generated by alternative splicing. CD34 is highly

expressed on hematopoietic progenitors, as well as on endothelial cells, brain, and testis. Staining for CD34 has been used to measure angiogenesis,

which reportedly predicts tumor recurrence.

Additional Information

Gene ID 947

Other Names Hematopoietic progenitor cell antigen CD34, CD34, CD34

Target/Specificity Selectively expressed on hematopoietic progenitor cells and the small vessel

endothelium of a variety of tissues.

Dilution WB=1:1000-5000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name CD34

Function Possible adhesion molecule with a role in early hematopoiesis by mediating

the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to

selectins.

Cellular Location Membrane; Single-pass type I membrane protein.

Tissue Location Selectively expressed on hematopoietic progenitor cells and the small vessel

endothelium of a variety of tissues

Background

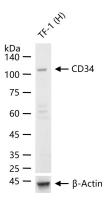
The highly glycosylated 75-120 kD antigen CD34 is possibly an adhesion molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C, suggesting a putative role in signal transduction. Two isoforms of CD34 have been reported to be generated by alternative splicing. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells, brain, and testis. Staining for CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.

References

Brown J., et al.Int. Immunol. 3:175-184(1991). Suda J., et al.Blood 79:2288-2295(1992). Rush J., et al.Nat. Biotechnol. 23:94-101(2005). Cao L., et al.J. Immunol. 179:5864-5876(2007). Gundry R.L., et al.Mol. Cell. Proteomics 8:2555-2569(2009).

Images

25 ug total protein per lane of various lysates (see on figure) probed with CD34 polyclonal antibody, unconjugated (AP52283) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Citations

• MicroRNA let-7c-5p promotes osteogenic differentiation of dental pulp stem cells by inhibiting lipopolysaccharide-induced inflammation via HMGA2/PI3K/Akt signal blockade.

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