

Monoclonal Antibody to CD34 - Purified

Alternate names:	Hematopoietic progenitor cell antigen CD34, Hematopoietic progenitor cell marker
Catalog No.:	DM3515P
Quantity:	50 µg
Background:	<p>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.</p> <p>CD34, a single chain transmembrane glycoprotein, is selectively expressed on human lymphoid and myeloid hematopoietic progenitor cells.</p>
Uniprot ID:	P28906
NCBI:	NP_001020280.1
GeneID:	947
Host / Isotype:	Mouse / IgG1
Clone:	34C02
Immunogen:	Recombinant Human CD34 protein.
Format:	State: Lyophilized purified IgG fraction Purification: Protein G Chromatography Buffer System: 10 mM PBS, pH 7.4 without preservatives or stabilizers Reconstitution: Restore in sterile Water to a concentration of 1.0 mg/ml.
Applications:	Flow Cytometry. Immunohistology on Frozen Sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with CD34 - expressed on lymphoid and myeloid hematopoietic progenitor cells. Also reacts with vascular endothelial cells in normal tissues and in benign and malignant proliferations.
Species Reactivity:	Tested: Human.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

The lyophilized antibody, though stable at RT, is best stored desiccated below 0°C.
Reconstituted antibody is stable at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References: 1. Ramani et al. Histopathology, 1990, 17:237-342.

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