

Monoclonal Antibody to CD34 - Purified

Alternate names:	Hematopoietic progenitor cell antigen CD34, Hematopoietic progenitor cell marker
Catalog No.:	AM08428PU-N
Quantity:	50 µg
Concentration:	1.0 mg/ml
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.
Uniprot ID:	Q64314
NCBI:	NP_598415.1
GeneID:	12490
Host / Isotype:	Rat / IgG2a
Clone:	3H1240
Format:	State: Liquid purified Ig fraction. Purification: Protein G Chromatography. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative.
Applications:	Immunoprecipitation: 2-10 µg/ml. Flow Cytometry: Use 10 µl of 1/25-1/50 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes the Mouse CD34 cell surface glycoprotein. Mouse CD34 is expressed by hematopoietic progenitor cells in the bone marrow and also by endothelial cells.
Species Reactivity:	Tested: Mouse.

Storage: Store the antibody undiluted at 2-8°C for one month or (Add 40-50% Sterile Glycerol) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures: Spleen: Formalin-Fixed Paraffin-Embedded (FFPE) using anti CD34 antibody (Cat#AM08428PU-N)

