

Product datasheet for **AM08428PU-N**

Cd34 Rat Monoclonal Antibody [Clone ID: MEC 14.7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEC 14.7
Applications:	FC, IHC, IP
Recommended Dilution:	Flow Cytometry: 1/25 - 1/50. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Immunoprecipitation: 2 - 10 µg/ml.
Reactivity:	Human, Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	CD34 antibody was raised against mouse CD34
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.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD34 antigen
Database Link:	Entrez Gene 12490 Mouse Q64314



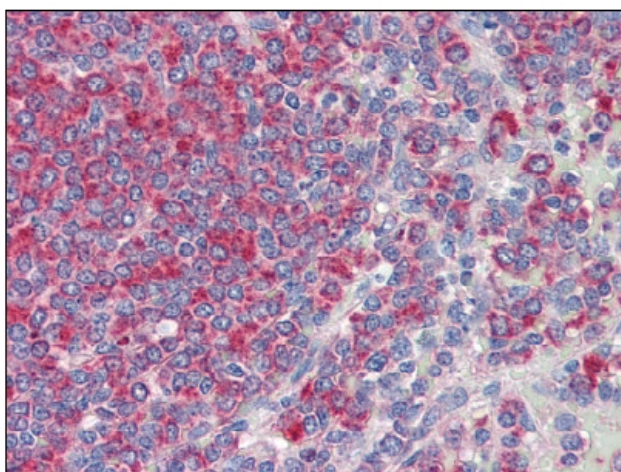
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Background:

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.

Synonyms:

Hematopoietic progenitor cell marker

Product images:

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