

Product datasheet for SM1603LE

Cd34 Rat Monoclonal Antibody [Clone ID: MEC14.7]

Product data:

Product Type: Primary Antibodies

Clone Name: MEC14.7
Applications: FC, IHC, IP

Recommended Dilution: Flow Cytometry.

Immunoprecipitation.

Immunohistochemistry on Paraffin Sections: 1/20-1/200.

Reactivity: Mouse **Host:** Rat

Isotype: IgG2a

Clonality: Monoclonal

Specificity: This antibody recognises the CD34 cell surface antigen, wihich is expressed by endothelial

cells and by haematopoietic stem cells. It recognises a Neuraminidase sensitive epitope. As in the human system, CD34 antibodies in the mouse demonstrate slightly different staining

patterns depending on their fine specificity.

Clone MEC14.7 appears to recognise a subset of the stem cell population recognised by clone RAM34, and it is thought that this is due to differences in the epitope recognised by the two

antibodies.

Formulation: PBS without preservatives.

State: Low Endotoxin

State: Liquid purified IgG fraction.

Concentration: lot specific

Purification: Affinity Chromatography on Protein G from tissue culture supernatant.

Conjugation: Unconjugated

Storage: Store the antibody undiluted at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: CD34 antigen



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Database Link: Entrez Gene 12490 Mouse

Q64314

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

Note: Endotoxin Level: less than 0.01 EU/μg