

## Monoclonal Antibody to CD34 - FITC

<b>Alternate names:</b>	Hematopoietic progenitor cell antigen CD34, Hematopoietic progenitor cell marker
<b>Catalog No.:</b>	SM1603FX
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	CD34 is expressed by endothelial cells and by haematopoietic stem cells.
<b>Uniprot ID:</b>	<a href="#">Q64314</a>
<b>NCBI:</b>	<a href="#">NP_598415.1</a>
<b>GeneID:</b>	<a href="#">12490</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	MEC14.7
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: 1/5 - 1/10; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl; The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD34 cell surface antigen. This antibody 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. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General References:</b>	1. Garlanda, C. et al. (1997) Characterization of MEC14.7, a new monoclonal antibody recognising mouse CD34: a useful reagent for identifying and characterizing blood vessels and haematopoietic precursors. Eur. J. Cell Biol. 73: 368-377.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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