



# Anti-CD34 monoclonal antibody, clone MEC14.7 [FITC] (CABT-50429RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti Mouse CD34 antibody, clone MEC14.7 recognizes the murine CD34 cell surface antigen, which is expressed by endothelial cells and by haematopoietic stem cells. This antibody recognizes a neuraminidase sensitive epitope. As in the human system, CD34 antibodies in the mouse demonstrate slightly different staining patterns depending on their fine specificity. Rat anti Mouse CD34 antibody, clone MEC14.7 appears to recognize a subset of the stem cell population recognized by clone RAM34, and it is thought that this is due to differences in the epitope recognized by the two antibodies. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

<b>Specificity</b>	CD34
<b>Immunogen</b>	T-end.1, a pMT transformed endothelial cell line
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	MEC14.7
<b>Conjugate</b>	FITC
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet

**Storage** in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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## GENE INFORMATION

Gene Name	<a href="#">Cd34 CD34 antigen [ Mus musculus (house mouse) ]</a>
Official Symbol	CD34
Synonyms	CD34; CD34 antigen; AU040960; hematopoietic progenitor cell antigen CD34; cluster designation 34;
Entrez Gene ID	<a href="#">12490</a>
Protein Refseq	<a href="#">NP_001104529</a>
UniProt ID	Q64314
Chromosome Location	1 H6; 1 98.38 cM
Pathway	Adaptive Immune System; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell;
Function	carbohydrate binding; sulfate binding; transcription factor binding;