

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 700 Anti-Mouse CD34 Antibody[RAM34]

Catalog Number: E-AB-F1284UM1

Note: Centrifuge before opening to ensure complete recovery of vial contents.

_						40		
	e	c	^	71	n	Ť١	$oldsymbol{\cap}$	n
ш	v	Э.	•		w	ш	u	

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ
Clone No. RAM34

Isotype Control Elab Fluor® 700 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833M1]

Conjugation Elab Fluor® 700

Conjugation Information Elab Fluor[®] 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

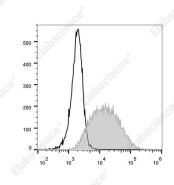
Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

Applications Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 μ g/10⁶ cells in 100 μ L volume].

Data



Staining of the NIH/3T3 cells with Elab Fluor® 700 Anti-Mouse CD34 Antibody[RAM34](filled gray histogram) or Elab

Fluor[®] 700 Rat IgG2a, κ Isotype Control(empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8 $^{\circ}\text{C}$ for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Web: www.elabscience.cn

Shipping Ice bag

Antigen Information

Alternate Names Hematopoietic progenitor cell antigen CD34

 Uniprot ID
 Q64314

 Gene ID
 12490

For Research Use Only

Elabscience®

Elabscience Biotechnology Co., Ltd.

A Reliable Research Partner in Life Science and Medicine

Background

The RAM34 antibody reacts with the CD34 glycoprotein on the surface of three independently derived mouse CD34-transfected cell lines. RAM34 antibody also reacts with the mouse cell lines PA6, 416B, Swiss 3T6, NIH, 3T3, DA1, and M1, all of which are positive for expression of mouse CD34 mRNA. Cell lines shown to be negative for CD34 transcript, including WEHI-3B, EL4, 18.8, and CMT64/61, are also negative for surface expression of CD34 as determined by RAM34 staining. Normal thymocytes and splenocytes are negative for CD34 expression. In the bone marrow, 7-10% of cells are stained with RAM34 mAb, including most of the Ly-6A/E (Sca-1)+ CD90 (Thy-1)low Lineage Marker- hematopoietic stem cell-enriched subpopulation and myeloerythroid progenitors. CD34 is also expressed on a small percentage of fetal liver cells, including NK-cell progenitors. CD34 has been reported to be expressed on the endothelium of capillaries and, in this form, to function as a ligand for L-selectin. Consistent with this observation, RAM34 antibody stains endothelial cells in spleen, thymus, and postcapillary HEVs in the lymph nodes. It is reported that RAM34 antibody can be used to select CD34+ CD117 (c-Kit)+ Ly-6A/E (Sca-1)+ Lineage Marker- bone marrow-derived hematopoietic stem cells, capable of short-term multi-lineage reconstitution of lethally irradiated mice; while the CD34- CD117+ Sca-1+ Lineage Marker- population contains self-renewing hematopoietic stem cells. Similarly, the bone marrow population with high dye-efflux capacity and which is highly enriched for long-term reconstituting hematopoietic stem cells is CD34- CD117 (c-Kit)+ Ly-6A/E (Sca-1)+ Lineage Marker-.

Web: www.elabscience.cn

Rev. V1.4