

CD34 Monoclonal Antibody (RAM34), Alexa Fluor™ 532, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 532, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RAM34
Conjugate	Alexa Fluor™ 532
Excitation/Emission Max	534/553 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2866446

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	1.0 µg/test	53 Publications

Product Specific Information

Description: The RAM34 monoclonal antibody reacts with mouse CD34, also known as mucosialin. It has been reported that the RAM34 antibody can be used to detect CD34+Sca-1+c-Kit+ cells. CD34 is a highly glycosylated (approximately 90-120 kDa) member of the sialomucin family and is expressed by capillary endothelial cells, bone marrow stroma, and a small subpopulation of mouse bone marrow cells. RAM34 has been used to purify mouse hematopoietic stem cells (HSC) to near homogeneity. CD34 expressed on endothelial cells is a ligand for CD62L and plays a role in adhesion. Simultaneous staining of mouse bone marrow cells with a cocktail of antibodies to lineage markers (CD3, CD11b, Ly6G, TER-119 and CD45R/B220) reveals a subset of cells that stain with the RAM34 antibody and express undetectable to low levels of the indicated lineage markers.

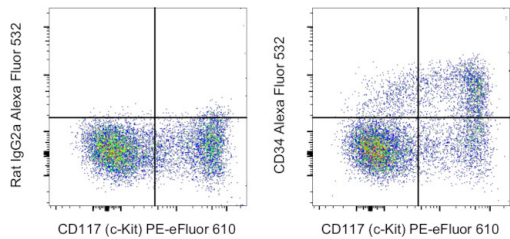
Applications Reported: This RAM34 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RAM34 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This may be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

Product Images For CD34 Monoclonal Antibody (RAM34), Alexa Fluor™ 532, eBioscience™



CD34 Antibody (58-0341-82) in Flow
C57BL/6 mouse bone marrow cells were stained with CD117 (c-Kit) Monoclonal Antibody, PE-eFluor 610 (Product # 61-1171-82), Mouse Hematopoietic Lineage Antibody Cocktail, eFluor 450 (Product # 88-7772-72), and 1.0 µg of Rat IgG2a kappa Isotype Control, Alexa Fluor 532 (Product # 58-4321-80) (left) or 1.0 µg of CD34 Monoclonal Antibody, Alexa Fluor 532 (right). Lineage negative cells were used for analysis.

View more figures on thermofisher.com

Immunohistochemistry (12)

Experimental and therapeutic medicine

Multiple benign fibrous histiocytomas of the mandible: A case report and review of the literature.

"Published figure using CD34 monoclonal antibody (Product # 58-0341-82) in Immunohistochemistry"

Authors: Wang Y,Huang Y,Cai WX,Tao Q

Year
2022

Cell & bioscience

14-3-3 loss leads to neonatal lethality by microRNA-126 downregulation-mediated developmental defects in lung vasculature.

"Published figure using CD34 monoclonal antibody (Product # 58-0341-82) in Immunohistochemistry"

Authors: Yang J,Joshi S,Wang Q,Li P,Wang H,Xiong Y,Xiao Y,Wang J,Parker-Thornburg J,Behringer RR,Yu D

Year
2022

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (Frozen) (1)

Proceedings of the National Academy of Sciences of the United States of America

Sonic hedgehog signals to multiple prostate stromal stem cells that replenish distinct stromal subtypes during regeneration.

"Published figure using CD34 monoclonal antibody (Product # 58-0341-82) in Immunohistochemistry (Frozen)"

Authors: Peng YC,Levine CM,Zahid S,Wilson EL,Joyner AL

Year
2013

Immunocytochemistry (7)

EMBO molecular medicine

Glomerular endothelial cell senescence drives age-related kidney disease through PAI-1.

"Published figure using CD34 monoclonal antibody (Product # 58-0341-82) in Immunocytochemistry"

Authors: Cohen C,Le Goff O,Soysouvanh F,Vasseur F,Tanou M,Nguyen C,Amrouche L,Le Guen J,Saltel-Fulero O,Meunier T,Nguyen-Khoa T,Rabant M,Nochy D,Legendre C,Friedlander G,Childs BG,Baker DJ,Knebelmann B,Anglicheau D,Milliat F,Terzi F

Year
2021

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

Flow (53)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.