

CD34 Monoclonal Antibody (RAM34), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RAM34
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_465021

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	1 µg/test	166 Publications
Functional Assay (Functional)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

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 can be used at less than or equal to 1 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 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

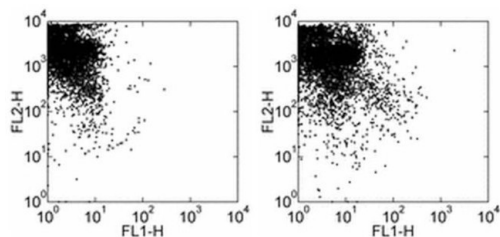
Note: When staining with the RAM34 antibody an incubation time of 90 minutes is recommended to obtain the optimal signal to noise ratio.

For more detailed information on staining with RAM34, please refer to Ema et al., listed under References.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD34 Monoclonal Antibody (RAM34), FITC, eBioscience™



CD34 Antibody (11-0341-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Mouse Hematopoietic Lineage Biotin Panel (Product # 88-7774-75) followed by Streptavidin PE (Product # 12-4317-87) and 0.5 μ g of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (left) or 0.5 μ g of Anti-Mouse CD34 FITC (right). Total viable cells were used for analysis.

Immunohistochemistry (5)

NPJ Regenerative medicine

Differential activation of Ca²⁺ influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration.

"11-0341-82 was used in Immunohistochemistry to establish the molecular identity of the calcium channel in MSCs and also show their role in modulating stem cell function."

Authors: Ahamad N,Sun Y,Nascimento Da Conceicao V,Xavier Paul Ezhilan CRD,Natarajan M,Singh BB

Year
2021

Species
Mouse

Cell reports

Single-Cell RNA Sequencing Reveals a Dynamic Stromal Niche That Supports Tumor Growth.

"11-0341-82 was used in Immunohistochemistry to identify complex interplays and increase stromal diversity as a tumor develops, revealing that stromal cells acquire the capacity to modulate immune landscapes from early disease."

Authors: Davidson S,Efremova M,Riedel A,Mahata B,Pramanik J,Huuhtanen J,Kar G,Vento-Tormo R,Hagai T,Chen X,Haniffa MA,Shields JD,Teichmann SA

Year
2020

Species
Mouse

Dilution
1:100

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

Immunohistochemistry (Frozen) (2)

The Journal of biological chemistry

The CB(2) cannabinoid receptor controls myeloid progenitor trafficking: involvement in the pathogenesis of an animal model of multiple sclerosis.

Authors: Palazuelos J,Davoust N,Julien B,Hatterer E,Aguado T,Mechoulam R,Benito C,Romero J,Silva A,Guzmán M,Nataf S,Galve-Roperh I

Year
2008

Development, growth & differentiation

Hair cycle-dependent changes of alkaline phosphatase activity in the mesenchyme and epithelium in mouse vibrissal follicles.

Authors: Iida M,Ihara S,Matsuzaki T

Year
2007

More applications with references on thermofisher.cn

ICC/IF (4) Flow (166) Functional (1) Misc (1)

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