

Sca-1 Monoclonal Antibody (CT-6A/6E), PE

Catalog NumberMA5-17834

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	2.0 µg/1x10^6 cells
Clone	CT-6A/6E	Published Applications	
Immunogen	Mouse Sca-1	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

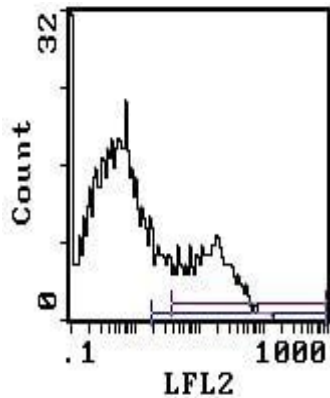
Stem Cell Antigen-1 (Sca-1) is a member of the lymphocyte antigen 6 (Ly-6) family. It is expressed on multipotent hematopoietic stem cells (HSC) and is used as a marker of HSC in mice. Sca-1 is used in combination with lineage depletion antibodies to identify murine HSC. Sca-1 can be found in fetal liver, adult bone marrow, and adult peripheral blood and spleen. Sca-1 may be involved in the regulation of B and T cell activation.

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Sca-1 Antibody (MA5-17834) in Flow

Flow cytometric analysis of Bone Marrow staining using anti-Sca-1/Ly-6A.2 Monoclonal Antibody (Product # MA5-17834) at a 2.0 $\mu\text{g}/10^6$ cells dilution. The Isotypic control was a PE Rat IgG2b

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PubMed References For Sca-1 Monoclonal Antibody (CT-6A/6E), PE

1 Flow Cytometry References

Species / Dilution	Summary
	MA5-17834 was used in Flow cytometry/Cell sorting to show that early-life abnormal dietary calcium intake might program the adipogenic differentiation potential of BMSCs from male offspring, with significant expressions on the Wnt/-catenin signaling pathway to aggravate high-fat-diet-induced obesity in adulthood.
Mouse / Not Cited	World journal of stem cells (2022; 14: 756) "Maternal inappropriate calcium intake aggravates dietary-induced obesity in male offspring by affecting the differentiation potential of mesenchymal stem cells." Author(s):Li P,Wang Y,Li P,Liu YL,Liu WJ,Chen XY,Tang TT,Qi KM,Zhang Y PubMed Article URL: http://dx.doi.org/10.4252/wjsc.v14.i10.756

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