

Ly-6A/E (Sca-1) Monoclonal Antibody (D7), PE, eBioscience™

Product Details	
Size	50 µg
Species reactivity	Mouse
Published species	Hamster, Human, Mouse
Host / Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	D7
Conjugate	PE
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_466085

Applications	Tested Dilution	Publications
Affinity Purification (AP)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	96 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Miscellaneous Pubmed (Misc)	-	2 Publications

Product Specific Information

Description: The D7 monoclonal antibody reacts with mouse Sca-1, an 18 kDa member of the Ly-6 family of GPI-linked surface proteins. D7 reacts with both Ly-6E.1 and Ly-6A.2 molecules expressed by mouse hematopoietic stem cells, myeloid population and peripheral T and B cells. Non-activated splenocytes from Ly-6.2 strains including C57BL, SJL, 129, AKR, and others demonstrate higher frequency of D7-positive cells compared to the Ly-6.1 strains such as BALB/c, C3H, NZB and others. Sca-1 is expressed at high levels upon activation regardless of the Ly-6 haplotype. The Ly-6 family is involved in regulation and function of T cell activation. Sca-1 is a major phenotypic marker for mouse hematopoietic progenitor/stem cell subset.

Applications Reported: This D7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This D7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 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.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Visit [thermofisher.com](https://www.thermofisher.com) to view references and figures.

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