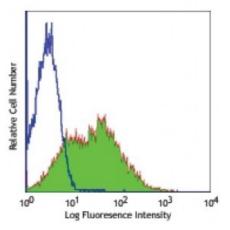
Product Data Sheet

Purified anti-mouse Ly-6A/E (Sca-1)

Catalog # / Size:	1212510 / 500 μg 1212505 / 50 μg
Clone:	E13-161.7
Isotype:	Rat IgG2a, к
Immunogen:	mouse pre-T cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse splenocytes stained with purified E13-161.7, followed by anti-rat IgG FITC

Applications:

Applications:	Other
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: complement- mediated cytoxicity1, immunohistochemical staining of frozen sections ² and Bouin-fixed, paraffin-embedded samples4, immunofluorescence microscopy4, and immunoprecipitation3.
	The two Sca-1 recognizing clones D_{7} and E13-161.7 have been shown to bind distinct epitopes due to the inability of D7 to block the binding of E13-161.7. ⁷
Application References:	 Aihara Y, <i>et al.</i> 1986. <i>Eur. J. Immunol.</i> 16:1391. (CMCD) Spangrude GJ, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:3697. (IHC) van de Rijin M, <i>et al.</i> 1989. <i>P. Natl. Acad. Sci. USA</i> 86:4634. (IP) Bamezai A and Rock KL. 1995. Proc. Natl. Acad. Sci. USA 92:4294. van Bragt MPA, <i>et al.</i> 2005. <i>Biol. Reprod.</i> 73:634. (IHC, IF) Brandi C, <i>et al.</i> 2009. <i>Exp Eye Res.</i> 89:209. <u>PubMed</u> Rosas M, <i>et al.</i> 2010. <i>J. Leukoc. Biol.</i> 88:169. <u>PubMed</u> Felthause O, <i>et al.</i> 2010. <i>Neurosci Lett.</i> 471:179. <u>PubMed</u>
Description:	Ly-6A/E is an 18 kD member of the Ly-6 multigene family also known as Sca-1. Ly6A/E is a glycosylphosphatidylinositol (GPI)-linked protein expressed on hematopoietic stem cells. In mice expressing the Ly-6.2 haplotype (e.g., AKR,

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C57BL, C57BR, DBA/2, SJL, SWR, and 129), Ly-6A/E is also expressed on peripheral B lymphocytes and thymic and peripheral T lymphocytes. Strains expressing the Ly-6.1 haplotype (e.g., BALB/c, CBA, C3H/He, DBA/1, and NZB)

have low Ly-6A/E expression on resting peripheral lymphocytes. The expression of Ly-6A/E on lymphocytes is upregulated upon activation from both Ly6.1 and Ly6.2 haplotype mice. Ly-6A/E is thought to be involved in the regulation of both T and B cell responses. The E13-161.7 antibody has been reported to be useful for immunohistochemical staining of frozen sections, immunoprecipitation, flow cytometry, and complement-mediated cytotoxicity.

 Antigen
 1. Rock KL, et al. 1989. Immunol. Rev. 111:195.

 References:
 2. Morrison SJ, et al. 1994. Immunity 1:661.

 3. Spangrude GJ, et al. 1988. J. Immunol. 141:3697.

 4. Malek T, et al. 1986. <</th>