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Datasheet for ABIN2689819 anti-Sca-1/Ly-6A/E antibody

20 Publications



## Overview

Quantity:	0.5 mg
Target:	Sca-1/Ly-6A/E (Ly6a)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Sca-1/Ly-6A/E antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Cytotoxicity Test (CyTox)

## Product Details

Brand:	BD Pharmingen™
Immunogen:	BALB/c mouse-derived "pre-T" cell hybridoma
Clone:	E13
Isotype:	IgG2a kappa
Characteristics:	The E13-161.7 antibody reacts with Ly-6A.2 and Ly-6E.1, which are allelic members of the Ly-6
	multigene family. Sca1 (Ly-6A/E), a phosphatidylinositol-anchored protein of about 18 kDa, is
	expressed on the multipotent hematopoietic stem cell (HSC) in mice with both Ly-6 haplotypes
	Sca-1+ HSC are found in the adult bone marrow and fetal liver, but not in the early embryo yolk
	sac or intraembryonic hematopoietic sites, and can be mobilized to the peripheral blood and
	spleen in the adult. In mice expressing the Ly-6.2 haplotype (e.g., AKR, C57BL, C57BR, C57L,
	C58, DBA/2, PL, SJL, SWR, 129), Ly-6A/E is also expressed on distinct subpopulations of bone

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marrow and peripheral B lymphocytes, myeloid cells, and thymic and peripheral T lymphocytes,
on the earliest intrathymic T-cell precursor population, and in several non-hematopoietic
tissues. Strains with the Ly-6.1 haplotype (e.g., A, BALB/c, CBA, C3H/He, DBA/1, NZB) have few
Ly-6A/E+ resting peripheral lymphocytes, whereas activation of T cells from mice of both Ly-6
haplotypes leads to strong expression of the Sca-1 antigen. Studies with the D7 antibody (Cat.
No. 557403) have demonstrated that Ly-6A/E may be involved in the regulation of B and T $$
lymphocyte responses, and it appears to be required for T-cell receptor-mediated T-cell
activation. Purified E13-161.7 mAb can block binding of FITC-conjugated D7 antibody (anti-Ly-
6A/E, Cat. No. 557405) to mouse splenocytes, but purified mAb D7 (Cat. No. 557403) is unable
to block binding of FITC-conjugated E13-161.7 antibody (Cat. No. 553335). Anti-Ly-6A/E (Sca-1)
mAb may be used in combination with the Mouse Lineage Panel (Cat. No. 559971) to identify
HSC. This antibody is routinely tested by flow cytometric analysis. Other applications were
tested during antibody development only or reported in the literature.

BD Pharmingen™ Purified Rat Anti-Mouse Ly-6A/E - Purified - Clone E13-161.7 - Isotype Rat IgG2a, к - Reactivity Ms - 0.5 mg

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

Target:	Sca-1/Ly-6A/E (Ly6a)
Alternative Name:	Ly-6A/E (Ly6a Products)
Background:	Synonyms: Sca-1
Pathways:	Sensory Perception of Sound, Activated T Cell Proliferation
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Application Notes: Restrictions:	Optimal working dilution should be determined by the investigator. For Research Use only
Restrictions:	
Restrictions: Handling	For Research Use only

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Handling	
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.
Publications	
Product cited in:	Shinohara, Ikarashi, Maruoka, Miyata, Sugimura, Terada, Wakasugi: "Functional and
	phenotypical characteristics of hepatic NK-like T cells in NK1.1-positive and -negative mouse
	strains." in: European journal of immunology, Vol. 29, Issue 6, pp. 1871-8, (1999) (PubMed).
	Bendelac: "Mouse NK1+ T cells." in: Current opinion in immunology, Vol. 7, Issue 3, pp. 367-74,
	(1995) (PubMed).
	Hugo, Kappler, Godfrey, Marrack: "Thymic epithelial cell lines that mediate positive selection can
	also induce thymocyte clonal deletion." in: Journal of immunology (Baltimore, Md. : 1950), Vol.
	152, Issue 3, pp. 1022-31, (1994) (PubMed).
	Tomonari, Fairchild: "Positive and negative selection of Tcrb-V6+ T cells." in: Immunogenetics,
	Vol. 36, Issue 4, pp. 230-7, (1992) (PubMed).
	Haqqi, Banerjee, Anderson, David: "RIII S/J (H-2r). An inbred mouse strain with a massive
	deletion of T cell receptor V beta genes." in: <b>The Journal of experimental medicine</b> , Vol. 169,
	Issue 6, pp. 1903-9, (1989) (PubMed).
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