

## APC Anti-Mouse Ly6A/E(Sca-1) Antibody[D7]

Catalog Number: E-AB-F1191E

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

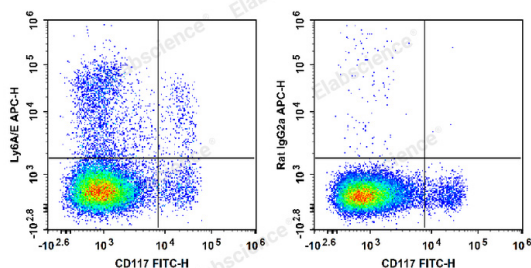
Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a, $\kappa$
Clone No.	D7
Isotype Control	APC Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832E]
Conjugation	APC
Conjugation Information	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



C57BL/6 murine bone marrow cells are stained with FITC Anti-Mouse CD117 Antibody and APC Anti-Mouse Ly6A/E(Sca-1) Antibody (Left). Bone marrow cells are stained with FITC Anti-Mouse CD117 Antibody and APC Rat IgG2a,  $\kappa$  Isotype Control (Right).

### Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

### Antigen Information

Alternate Names	Ly-6A.2/Ly-6E.1;Ly6;Ly6a;SCA-1;TAP
Uniprot ID	P05533
Gene ID	110454

### For Research Use Only

## Background

Ly-6A/E, also known as Sca-1, is an 18 kD member of the Ly-6 multigene family. Ly6A/E is a glycosylphosphatidylinositol (GPI)-linked protein expressed on hematopoietic stem cells. In mice expressing the Ly-6.2 haplotype (e.g., AKR, 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.