

## PE/Cyanine7 Anti-Mouse Ly6A/E(Sca-1) Antibody[D7]

Catalog Number: GFH1191H

**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         | PE/Cyanine7 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832H]                                                                                                                                |
| Conjugation             | PE/Cyanine 7                                                                                                                                                                                               |
| Conjugation Information | PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                        |

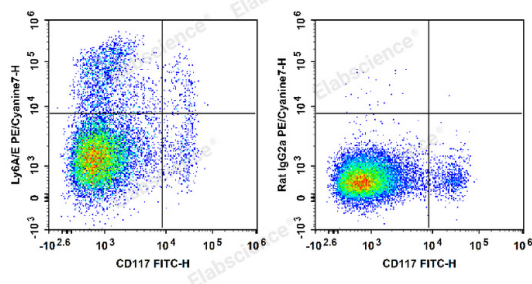
### Applications

### Recommended usage

FCM

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

### Data



C57BL/6 murine bone marrow cells are stained with FITC Anti-Mouse CD117 Antibody and PE/Cyanine7 Anti-Mouse Ly6A/E(Sca-1) Antibody (Left). Bone marrow cells are stained with FITC Anti-Mouse CD117 Antibody and PE/Cyanine7 Rat IgG2a,  $\kappa$  Isotype Control (Right).

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 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                             |

### For Research Use Only

**Gene ID**

110454

**Background**

Ly-6A/E, also known as Sca-1, is an 18 kD member of the Ly-6 multigene family. Ly-6A/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 Ly-6.1 and Ly-6.2 haplotype mice. Ly-6A/E is thought to be involved in the regulation of both T and B cell responses.