

## 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 10<sup>5</sup> to 10<sup>8</sup> 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.

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