

Mouse Sca-1/Ly6 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1226

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Sca-1/Ly6 in direct ELISAs and Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Sca-1 C-terminally truncated Ly-6E allele Leu27-Gly119 Accession # CAA28351		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		

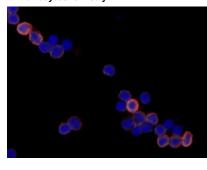
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse Sca-1/Ly6
Flow Cytometry	2.5 µg/106 cells	Mouse splenocytes
Immunocytochemistry	5-15 μg/mL	See Below

DATA

Immunocytochemistry



Sca-1 / L y 6 in Mouse
Splenocytes. Sca-1/Ly6 was
detected in immersion fixed
mouse splenocytes using
10 µg/mL Goat Anti-Mouse
Sca-1/Ly6 Antigen Affinitypurified Polyclonal Antibody
(Catalog # AF1226) for 3 hours
at room temperature. Cells were
stained with the NorthernLights™
557-conjugated Anti-Goat IgG
Secondary Antibody (red;
Catalog # NLO01) and
counterstained with DAPI (blue).
View our protocol for Fluorescent
ICC Staining of Non-adherent
Cells.

PREPAR	ATION AND	STORAGE
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 Reconstitution
 Reconstitute at 0.2 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month from date of receipt, 2 to 8 °C, reconstituted.
- 6 months from date of receipt, -20 to -70 °C, reconstituted.





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BACKGROUND

This antibody reacts with Sca-1, an 18 kDa phosphatidylinositol-anchored protein that is a member of the lymphocyte antigen 6 (Ly-6) family (1). Sca-1 is encoded by the strain-specific Ly-6 E/A allelic gene. Its expression on multipotent hematopoietic stem cells (HSC) has been used as a marker of HSC in mice of both Ly-6 haplotypes (2, 3). This antibody is frequently used in combination with lineage depletion antibodies to identify and isolate murine HSC. Sca-1-positive HSC can be found in the adult bone marrow, fetal liver and mobilized peripheral blood and spleen in the adult animal (2-7). However, Sca-1 has also been discovered in several non-hematopoietic tissues (1) and can be used to enrich progenitor cell populations other than HSC (8). It is suggested that Sca-1 could be involved in regulating both B and T cell activation (9-12).

References:

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