abcam

ab51317

Anti-Ly-6A/E (Sca-1) antibody [E13 161-7] - Hematopoietic Stem Cell Marker

Anti-Ly-6A/E (Sca-1) antibody [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317) is a rat monoclonal antibody detecting Ly-6A/E (Sca-1) in **Flow Cytometry, ICC/IF**. Suitable for **Mouse**.

- Over 30 publications
- Trusted since 2009

Lab Essentials

Key facts

Isotype	IgG2a
Host species	Rat
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	E13 161-7
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	5 µg/mL
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	0.2 µg for 10^6 Cells
Notes	-

WB

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Ly6a

Function	T-cell activation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Ly-6A/E (Sca-1) antibody [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317) is a rat monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunocytochemistry/immunofluorescence (ICC/IF) in Mouse samples.

Trusted by the scientific community
Anti-Ly-6A/E (Sca-1) [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317) was first used in a scientific publication in 2009 and has been cited over 30 times in peer-reviewed journals.

Reviewed by scientists
Anti-Ly-6A/E (Sca-1) [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317) has over 5 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [E13 161-7] also available for your convenience: ab51317, Alexa Fluor® 647 - ab323682, Alexa Fluor® 488 - ab323683, FITC - ab323684

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

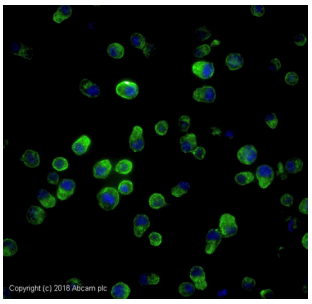
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

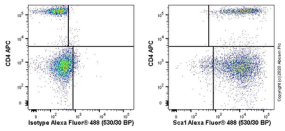
2 product images



Immunocytochemistry/ Immunofluorescence - Anti-Ly-6A/E (Sca-1) antibody [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317)

Ly-6A/E (Sca-1) Immunocytochemistry/ Immunofluorescence staining using rat Anti-Ly-6A/E (Sca-1) antibody

ab51317 stained mouse TH2 cells. The cells were 4% formaldehyde fixed for 4 minutes at room temperature and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab51317 at 10µg/ml) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rat IgG H&L (Alexa Fluor® 488) preadsorbed (ab150165) used at a 1/1000 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Flow Cytometry - Anti-Ly-6A/E (Sca-1) antibody [E13 161-7] - Hematopoietic Stem Cell Marker (ab51317)

Ly-6A/E (Sca-1) Flow Cytometry staining using rat Anti-Ly-6A/E (Sca-1) antibody

Flow cytometry staining of C57 BL/6 mouse splenocytes with ab51317 (right) or Rat IgG2aκ (ab18450) isotype (left). Cells were incubated for 30 min on ice in 1x PBS containing 10 % mouse serum/10 % normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab51317) or Rat IgG2aκ (ab18450) isotype (1x 10^6 in 100µl at 0.2µg/ml) for 30 min on ice.
The secondary antibody Goat anti-rat IgG H&L (Alexa Fluor® 488, pre-adsorbed) (ab150165) was used at 1/2000 dilution for 30 min on ice. The cells were simultaneously stained with CD4.

Acquisition of >30,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on live lymphocytes.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.