10320 Camino Santa Fe, Suite G
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Anti-Sca1/Ly6A/E Picoband Antibody

Catalog # ABO10354

Specification

Anti-Sca1/Ly6A/E Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P05533
Host	**Rabbit**
Reactivity	**Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Lymphocyte antigen 6A-2/6E-1(Ly6a) detection. Tested with WB in Mouse.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Sca1/Ly6A/E Picoband Antibody - Additional Information

Gene ID 110454

Other Names
Lymphocyte antigen 6A-2/6E-1, Ly-6A.2/Ly-6E.1, Stem cell antigen 1, SCA-1, T-cell-activating protein, TAP, Ly6a, Ly6

Calculated MW
14377 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Mouse

Subcellular Localization
Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity
Widely expressed. .

Protein Name
Lymphocyte antigen 6A-2/6E-1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of mouse Sca1/Ly6A/E (48-75aa YPDGVCVTQEAAVIVDSQTRKVKNNLCL).

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Sca1/Ly6A/E Picoband Antibody - Protein Information

Name Ly6a

Synonyms Ly6

Function
T-cell activation.

Cellular Location
Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Location
Widely expressed.

Anti-Sca1/Ly6A/E Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Sca1/Ly6A/E Picoband Antibody - Images

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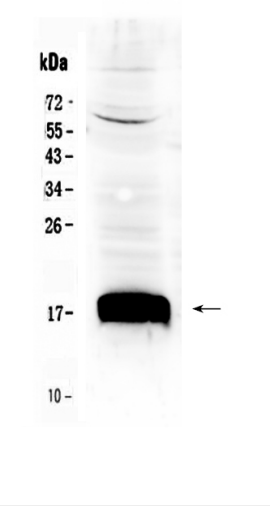

Figure 1. Western blot analysis of Sca1/Ly6A/E using anti- Sca1/Ly6A/E antibody (ABO10354). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HEPA1-6 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Sca1/Ly6A/E antigen affinity purified polyclonal antibody (Catalog # ABO10354) at 0.5 Î¼g/mL overnight at 4Â°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Sca1/Ly6A/E at approximately 17KD. The expected band size for Sca1/Ly6A/E is at 14KD.

Anti-Sca1/Ly6A/E Picoband Antibody - Background

Stem cell antigen-1 (Sca-1) is a mouse glycosyl phosphatidylinositol-anchored protein and a cell surface marker found on hematopoietic stem cells (HSCs). It is encoded by the strain-specific Ly-6 E/A allelic gene. Sca-1 has been discovered in several non hematopoietic tissues and can be used to enrich progenitor cell populations other than HSC. It is suggested that Sca-1 could be involved in regulating both B and T cell activation.