

Anti-Sca1/Ly6A/E Picoband Antibody

Catalog # ABO10354

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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Subcellular Localization	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Specificity	Widely expressed. .
Source	Eukaryota
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 YPDGVCVTQEAAVIVDSQTRKVKNLCL).
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.

Protein Information

Name	Ly6a
Synonyms	Ly6
Function	T-cell activation.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Location	Widely expressed.

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.

Images

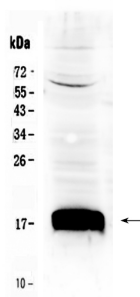


Figure 1. Western blot analysis of Sca1/Ly6A/E using anti-Sca1/Ly6A/E antibody (ABO10354). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HEPA1-6 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 μ g/mL overnight at 4 $^{\circ}$ 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.

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