Datasheet for ABIN5518854

anti-Sca-1/Ly-6A/E antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	Sca-1/Ly-6A/E (Ly6a)
Binding Specificity:	AA 48-75, Middle Region
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Lymphocyte antigen 6A-2/6E-1(Ly6a) detection. Tested with WB in Mouse.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse Sca1/Ly6A/E (48-75aa YPDGVCVTQEAAVIVDSQTRKVKNNLCL).
Sequence:	YPDGVCVTQE AAVIVDSQTR KVKNNLCL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Lymphocyte antigen 6A-2/6E-1(Ly6a) detection. Tested with WB in Mouse. Gene Name: lymphocyte antigen 6 complex, locus A Protein Name: Lymphocyte antigen 6A-2/6E-1
Purification:	Immunogen affinity purified.

Target Details

Target:	Sca-1/Ly-6A/E (Ly6a)
Alternative Name:	Ly6a (Ly6a Products)
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. Synonyms: Ly6a | Ly-6A.2/Ly-6E. | Ly-6A.2/Ly-6E.1 | Sca-1 | Sca1 | TAP
Gene ID:	110454
UniProt:	P05533
Pathways:	Sensory Perception of Sound, Activated T Cell Proliferation

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.

Handling

It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:

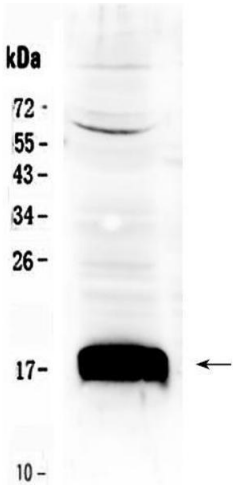
Ma, Pan, Ren, Guo, Guo, Wei, Zheng, Chen: "15-oxoeicosatetraenoic acid mediates monocyte adhesion to endothelial cell." in: **Lipids in health and disease**, Vol. 16, Issue 1, pp. 137, (2018) (PubMed).

Wang, Qing, Liu, Liu, Qiao, Cui, He, Zhao, Liu, Yan, Wang, Liang, Guo, Shen, Hou, Chen: " Mesenchymal stromal cells ameliorate oxidative stress-induced islet endothelium apoptosis and functional impairment via Wnt4-β-catenin signaling." in: **Stem cell research & therapy**, Vol. 8, Issue 1, pp. 188, (2018) (PubMed).

Hoffman, Adeli: "LDL Receptor Gene-Ablated Hamsters: A Rodent Model of Familial Hypercholesterolemia with Dominant Inheritance and Diet-Induced Coronary Atherosclerosis." in: **EBioMedicine**, Vol. 28, pp. 17-18, (2018) (PubMed).

Tian, Tao, Zhao, Tai, Liu, Liu: "Isolation and morphological characterization of ovine amniotic fluid mesenchymal stem cells." in: **Experimental animals**, Vol. 65, Issue 2, pp. 125-34, (2017) (PubMed).

Ma, Pan, Chen, Guo, Zhao, Zheng, Chen: "Trimethylamine N-oxide in atherogenesis: impairing endothelial self-repair capacity and enhancing monocyte adhesion." in: **Bioscience reports**, Vol. 37, Issue 2, (2017) (PubMed).



Western Blotting

Image 1. Western blot analysis of Sca1/Ly6A/E using anti-Sca1/Ly6A/E antibody . 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 #) at 0.5 µg/mL overnight at 4°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 (Catalog # EK1002) 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.