



Rabbit Anti-Sca1 antibody

SL3752R

Product Name:	Sca1
Chinese Name:	Tlymphocyte激活蛋白抗体
Alias:	Lymphocyte antigen 6A-2/6E-1; Ly-6A.2/Ly-6E.1; Stem cell antigen 1; Sca1 / Ly6A/E; SCA-1; T-cell-activating protein; TAP; Ly6al; Ly6a; LY6A MOUSE.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=2 μ g /TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	9kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse Sca1/Ly6A/E:15-110/134
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Sca1, also known as Ly6A/E, is a member of the Ly6 multigene family of type V glycoposphatidylinositol anchored cell surface proteins. It is expressed on multipotent hematopoietic stem cells in bone marrow of mice with both the Ly6.1 and Ly6.2 allotypes. In the periphery, Sca1 exhibits a pattern of expression which is based on differences between the two allotypes. Ly6.1 strains (e.g., A, BALB/c, CBA, C3H/He, DBA/1, NZB) have few Sca1+ resting peripheral lymphocytes, whereas Ly6.2 strains

(e.g., AKR, C57BL, C57BR, C57L, DBA/2, PL, SJL, SWR, 129) have relatively high numbers of Sca1+ lymphocytes. The expression of Sca1 is dramatically upregulated in all strains upon cellular activation.

Function:

T-cell activation.

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:

Widely expressed.

Post-translational modifications:

O-glycosylated. Not N-glycosylated.

Not phosphorylated.

Similarity:

Contains 1 UPAR/Ly6 domain.

SWISS:

P05533

Gene ID:

110454

Database links:

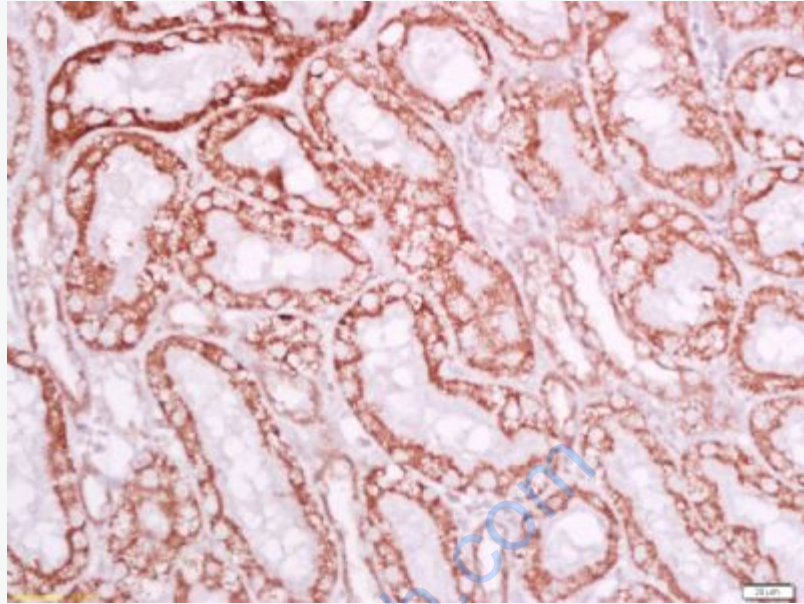
[Entrez Gene: 110454](#)Mouse

[SwissProt: P05533](#)Mouse

[Unigene: 425949](#)Mouse

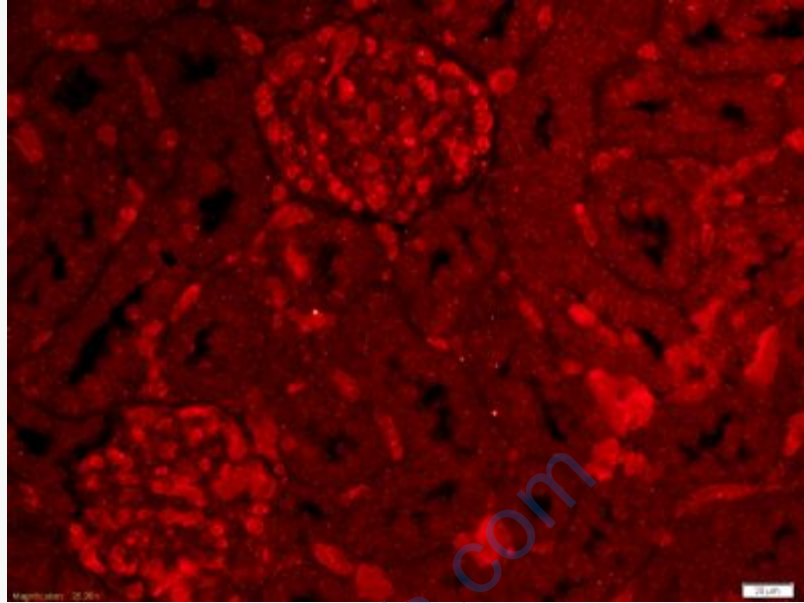
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Sca1 Polyclonal Antibody, Unconjugated(SL3752R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

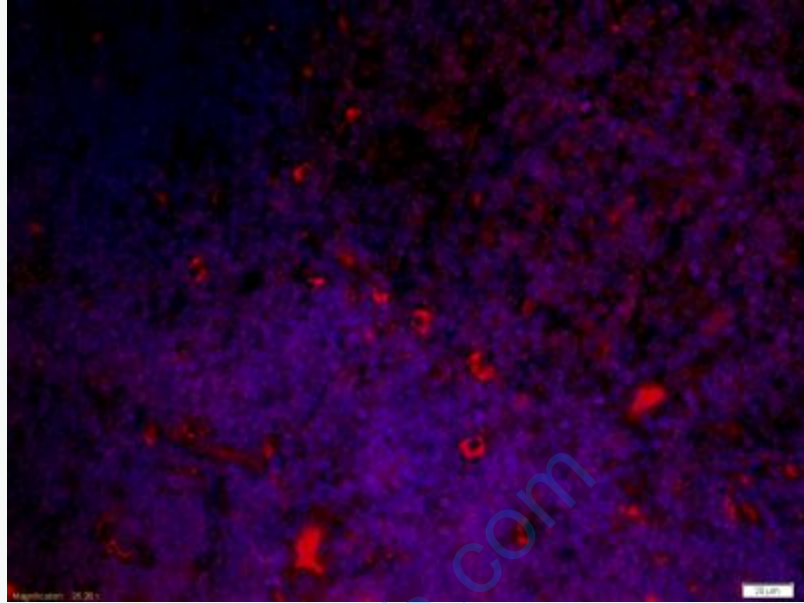


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Incubation: Anti-Sca1 Polyclonal Antibody, Unconjugated(SL3752R) 1:500, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL3752R)used at 1:200 dilution for 40 minutes at 37°C.



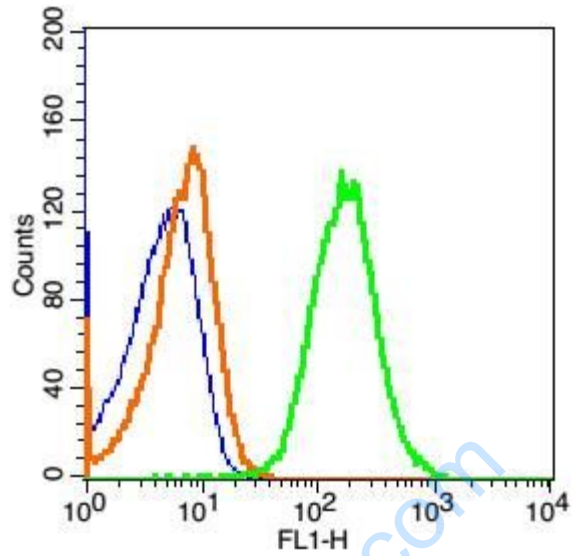
Tissue/cell: mouse thymus tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Sca1 Polyclonal Antibody, Unconjugated(SL3752R) 1:500, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL3752R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Blank control: Mouse Thymus Cells(blue).

Primary Antibody: Rabbit Anti-Scal/FITC Conjugated antibody (SL3752R),

Dilution: 2 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.