



Product Information Sheet

Polyclonal Anti- Stem cell antigen-1, *Ly6a/SCA1*

Catalogue No. PA1327

Lot No. 013101222764

Ig type rabbit IgG

Size 100µg/vial

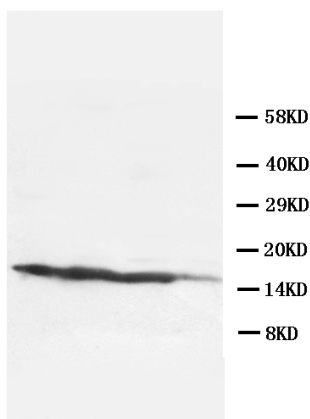
Specificity

Rat.

No cross reactivity with other proteins.

Recommended application

Western blot



Lane 1 : Rat Heart tissue Lysate

Lane 2 : Rat liver tissue Lysate

Lane 3 : Rat Testicular tissue Lysate

Lane 4 : Rat brain tissue Lysate

Immunogen

A synthetic peptide corresponding to a sequence of rat Ly6a/SCA1 (91-108aa).

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

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

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

SCA1 (Stem cell antigen-1), also known as Ly6A/E, is a member of the Ly6 multigene family of type V glycosylphosphatidylinositol anchored cell surface proteins. It is a glycosylphosphatidylinositol-anchored protein that identifies many tissue progenitor cells. Epting CL et al identified Sca-1 as a marker of myogenic precursor cells and subsequently demonstrated that Sca-1 regulates proliferation of activated myoblasts, suggesting an important role for Sca-1 in skeletal muscle homeostasis. And Bradfute SB et al experimental data indicate that Sca-1 plays a role in hematopoietic progenitor/stem cell lineage fate and c-kit expression. In addition, mouse Sca-1 overexpression affects human as well as mouse stem/progenitor cell activity, suggesting the possibility of a functional human Sca-1 homologue.

REFERENCE

1. Epting CL, King FW, Pedersen A, Zaman J, Ritner C, Bernstein HS. Stem cell antigen-1 localizes to lipid microdomains and associates with insulin degrading enzyme in skeletal myoblasts. *J Cell Physiol.* 2008 Oct;217(1):250-60.
2. Bradfute SB, Graubert TA, Goodell MA. Roles of Sca-1 in hematopoietic stem/progenitor cell function. *Exp Hematol.* 2005 Jul;33(7):836-43.