



Polyclonal Anti- Stem cell antigen-1, Ly6a/SCA1 (Sephacrose Bead Conjugate)

Catalogue No. PA1327-S

Lot No. 013101222764

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Rat. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

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

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

SCA1(Stem cell antigen-1), also known as Ly6A/E, is a member of the Ly6 multigene family of type V

glycophosphatidylinositol 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.

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