



Product Information Sheet

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

Catalogue No. PA1327	Immunogen A synthetic peptide corresponding to a sequence of rat Ly6a/SCA1 (91-108aa).
Lot No. 013101222764	
Ig type rabbit IgG	Purity Immunogen affinity purified.
Size 100µg/vial	Contents Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN ₃ .
Specificity Rat. No cross reactivity with other proteins.	Storage Store at 4°C for frequent use.
Recommended application immunoprecipitation	Description This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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.

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