Product Information Sheet

Polyclonal Anti-Lamin β *(Magnetic Bead Conjugate)*

Catalogue No. PA1048-M

Lot No. 0101012034818

Ig type: rabbit IgG

Size: 100μg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

ImmunoPrecipitation (IP)

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Lamin B (570-586 aa), different from rat sequence by one amino acid, mouse sequence by three amino acids.

Purity

Immunogen affinity purified.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3.

Storage

Store at 4˚C for frequent use.

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

Lamins are the major components of the nuclear lamina which underlies the nuclear envelope of eukaryotic cells. lamin B is a structural component of the long-sought-after spindle matrix that promotes microtubule assembly and organization in mitosis. Inspection of the deduced amino acid sequence of lamin B revealed the presence in coil 1B of the alpha-helical domain of a leucine heptad repeat region. Lamin B assembled into a matrix-like network in mitosis through a process that depended on the presence of the guanosine triphosphate-bound form of the small guanosine triphosphatase Ran.

REFERENCE

1. Pollard, K. M.; Chan, E. K.; Grant, B. J.; Sullivan, K. E.; Tan, E. M.; Glass, C. A. : In vitro posttranslational modification of lamin B clones from a human T-cell line. *Molec. Cell. Biol.* 10: 2164-2175, 1990

2. Tsai, M.-Y.; Wang, S.; Heidinger, J. M.; Shumaker, D. K.; Adam, S. A.; Goldman, R. D.; Zheng, Y. : A mitotic lamin B matrix induced by RanGTP required for spindle assembly. *Science* 311: 1887-1893, 2006.