



## Polyclonal Anti-Lamin $\beta$ (Sepharose Bead Conjugate)

**Catalogue No.** PA1048-S

**Lot No.** 0101012034818

**Ig type:** rabbit IgG

**Size:** 100 $\mu$ g/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.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> 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

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.

**For Research Use Only not for diagnostic and clinical use**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)