



Product Information Sheet

Monoclonal Anti-Protein Kinase B α , PKB α - Magnetic Bead Conjugate

Catalogue No. MA1085-M

Lot No. 08A12

Clone: IML-26

Ig type: mouse IgG1

Size: 200 μ l

Specificity

Human, mouse, rat, chicken.
No cross reactivity with other proteins.

Recommended application
Immunoprecipitation(IP)

Immunogen

Synthetic peptide corresponding to amino acids 461-477 of human PKB α /Akt1.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

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 beads. It is useful for immunoprecipitation

BACKGROUND

PKB α also known as V-AKT murine thymoma viral oncogene homolog 1 (AKT1). AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and is abrogated by mutations in the pleckstrin homology domain of AKT1. AKT1 gene is mapped to chromosome 14q32.3. Akt1/protein kinase B- α is critical for ischemic and VEGF-mediated angiogenesis. Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo.

REFERENCE

1. Staal, S. P.; Huebner, K.; Croce, C. M.; Parsa, N. Z.; Testa, J. R. : The AKT1 proto-oncogene maps to human chromosome 14, band q32. *Genomics* 2: 96-98, 1988.
2. Ackah, E.; Yu, J.; Zoellner, S.; Iwakiri, Y.; Skurk, C.; Shibata, R.; Ouchi, N.; Easton, R. M.; Galasso, G.; Birnbaum, M. J.; Walsh, K.; Sessa, W. C. : Akt1/protein kinase B- α is critical for ischemic and VEGF-mediated angiogenesis. *J. Clin. Invest.* 115: 2119-2127, 2005.
3. Chen, J.; Somanath, P. R.; Razorenova, O.; Chen, W. S.; Hay, N.; Bornstein, P.; Byzova, T. V. : Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo. *Nature Med.* 11: 1188-1196, 2005.

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