



Product Information Sheet

Monoclonal Anti-Protein Kinase B α , PKB α

Catalogue No. MA1085

Lot No. 08A12

Clone: IML-26

Ig type: mouse IgG1

Size: 100 μ g/vial

Specificity

Human, mouse, rat, chicken.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunogen

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

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.25-0.5 μ g/ml with the appropriate system to detect PKB α in cells and tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100 μ g/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

PKB 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.