



Product Information Sheet

Monoclonal Anti-Cdk7/CAK

Catalogue No. MA1022

Lot No. 08A12

Clone: IMD-26

Ig type: mouse IgG2b

Size: 100µg/vial

Specificity

Human.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(F)

Immunocytochemistry

Immunogen

Recombinant human Cdk7 protein.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.25µg/ml with the appropriate system to detect cdk7/cak in cells and tissues.

Immunohistochemistry(F)

At 0.5µg/ml to detect cdk7/cak in formalin/acetone fixed tissues.

Immunocytochemistry

Suitable

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 100µg/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.

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BACKGROUND

CDK-activating kinases (CAKs) are multisubunit proteins that phosphorylate and thus activate certain cyclin-dependent protein kinases in the regulation of cell cycle progression. Cyclin dependent kinase7(CDK7) gene is mapped to chromosome 2p15-cen. CDK7 functions in both cyclin binding and T-loop phosphorylation and that these 2 steps of CDK1 activation are mutually dependent.

REFERENCE

Levedakou, E. N.; He, M.; Baptist, E. W.; Craven, R. J.; Cance, W. G.; Welcsh, P. L.; Simmons, A.; Naylor, S. L.; Leach, R. L.; Lewis, T. B.; Bowcock, A.; Liu, E. T. : Two novel human serine/threonine kinases with homologies to the cell cycle regulating Xenopus MO15, and NIMA kinases: cloning and characterization of their expression pattern. *Oncogene* 9: 1977-1988, 1994.

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