



Product Information Sheet

Monoclonal Anti-Gelsolin

Catalogue No. MA1044

Lot No. 08A12

Clone: GEL-42

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human, rabbit, bovine.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunogen

Human plasma gelsolin.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.5-1µg/ml with the appropriate system to detect gelsolin in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect gelsolin in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 1-2µg/ml to detect gelsolin in formalin or acetone fixed 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 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

Gelsolin, a protein of leukocytes, platelets, and other cells, severs actin filaments in the presence of submicromolar calcium, thereby solating cytoplasmic actin gels. A gelsolin variant with 23 more N-terminal amino acids is a plasma component probably involved in the clearance of actin, the most abundant human protein, from the circulation. Gelsolin is located in 9q34. Plasma and cytoplasmic gelsolins are encoded by a single gene and contain a duplicated actin-binding domain

REFERENCE

1. Kwiatkowski, D. J.; Ozelius, L.; Schuback, D.; Gusella, J.; Breakefield, X. O. : The gelsolin (GSN) cDNA clone, from 9q32-34, identifies BclI and StuI RFLPs. *Nucleic Acids Res.* 17: 4425 only, 1989.
2. Kwiatkowski, D. J.; Westbrook, C. A.; Bruns, G. A. P.; Morton, C. C. : Localization of gelsolin proximal to ABL on chromosome 9. *Am. J. Hum. Genet.* 42: 565-572, 1988.
3. Kwiatkowski, D. J.; Stossel, T. P.; Orkin, S. H.; Mole, J. E.; Colten, H. R.; Yin, H. L. : Plasma and cytoplasmic gelsolins are encoded by a single gene and contain a duplicated actin-binding domain. *Nature* 323: 455-458, 1986.