Catalog No. LF-MA0176

MONOCLONAL ANTIBODY

Anti-Gelsolin(35B2)

Background : Gelsolin superfamily proteins control actin organization by severing filaments, capping filament ends and nucleating actin assembly. Gelsolin, a protein of 82–84 kDa, is the founding member of this family, which now contains at least another six members: villin, adseverin, capG, advillin, supervillin and flightless I. Gelsolin exists as a cytoplasmic as well as a plasma isoform, and can bind, sever and cap actin filaments. Plasma gelsolin level decreases dramatically as a result of major trauma and reinfusion of gelsolin can protect against lung damage associated with major burn injury and other types of insults. Recent study in Fas antibody-induced liver failure suggests that gelsolin exerts an overall anti-apoptotic effect in vivo. Gelsolin, a marker of motility, could be applied as a biomarker in assessing tumor prognosis. Tumor-associated processes such as invasion and metastasis are known to be critically dependent on dynamic alterations in the organization of the actin cytoskeleton. A causal relationship between gelsolin expression and in vitro invasion by way of signaling through Ras has been reported.

Immunogen : Protein purified from Human plasma

Host : Mouse

Clone number : 35B2

Isotype : IgG1, k

Size : 100 µℓ

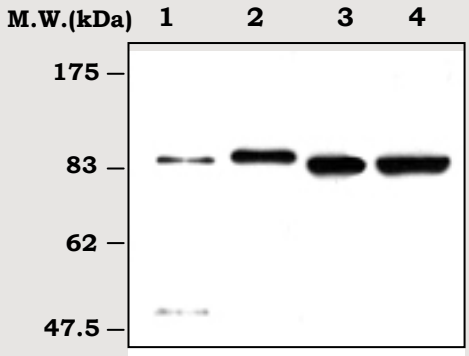
Compositon : Hepes with 0.15 M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Positive control : Human plasma

Storage : Store for 1 year at –20℃ from date of shipment.

Species cross reactivity

Human	Mouse	Rat
+	NT	NT



Immunoblot Analysis of human plasma protein and cell lysates
Lane 1 : Gelsolin isolated from human plasma
Lane 2 : Human plasma
Lane 3 : NIH:OVCAR-3 cell lysate
Lane 4 : MCF-7 cell lysate

Applications :
Western Blotting(1: 2,000)
Immunoprecipitation (0.5 µℓ/400 µℓ cell lysates)

Background Reference :

1) Leifeld, L. et al., 2006, Am J Pathol.168:778-785
2) Yang, J. et al., 2006, BMC Cancer. 6:203
3) Silacci, P. et al., 2004, Cell Mol Life Sci. 61:2614-2623
4) Christofidou-Solomidou M. et al., 2002, Lung 180: 91–104
5) De Corte, V. t al., 2002, EMBO J. 21:6781-6790

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