

Technical Data Sheet

Purified Mouse Anti-Gelsolin

Product Information

Material Number:	610413
Size:	150 µg
Concentration:	250 µg/ml
Clone:	2/Gelsolin
Immunogen:	Human Gelsolin aa. 592-768
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Dog, Mouse, Rabbit, Rat
Target MW:	93 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

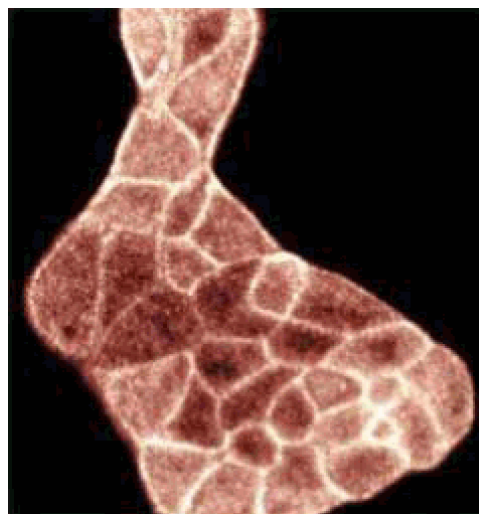
Description

Gelsolin was identified as a result of its ability to sever actin filaments in a Ca²⁺-dependent manner. The gene for gelsolin encodes an 83 kDa protein that migrates as a 93 kDa polypeptide in SDS-gels. The N-terminal domain contains the calcium-independent actin-severin site, whereas the calcium-dependent site is located in the C-terminal portion of the protein. It exhibits significant homology with villin, another calcium-regulated actin filament severing protein. Gelsolin can be found intracellularly, as well as in a secreted form. However, both forms are encoded by the same gene.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Gelsolin on human endothelial cell lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of anti-Gelsolin antibody.



Immunostaining on MDCK cells

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Wang Q, Xie Y, Du QS, et al. Regulation of the formation of osteoclastic actin rings by proline-rich tyrosine kinase 2 interacting with gelsolin. *J Cell Biol.* 2003; 160(4):565-575.(Clone-specific: Immunofluorescence, Immunoprecipitation, Western blot)