

Datasheet for ABIN967953

## anti-Gelsolin antibody (AA 592-768)

3 Images

5 Publications



[Go to Product page](#)

### Overview

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| Quantity:            | 50 µg                                                                                                |
| Target:              | Gelsolin (GSN)                                                                                       |
| Binding Specificity: | AA 592-768                                                                                           |
| Reactivity:          | Human, Rat, Mouse, Rabbit, Dog                                                                       |
| Host:                | Mouse                                                                                                |
| Clonality:           | Monoclonal                                                                                           |
| Conjugate:           | This Gelsolin antibody is un-conjugated                                                              |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF) |

### Product Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:        | Human Gelsolin aa. 592-768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clone:            | 2-Gelsolin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype:          | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cross-Reactivity: | Dog (Canine), Mouse (Murine), Rabbit, Rat (Rattus)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Characteristics:  | <ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>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.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol> |

## Product Details

|               |                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------|
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. |
|---------------|-------------------------------------------------------------------------------------------------------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | Gelsolin (GSN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alternative Name: | Gelsolin ( <a href="#">GSN Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Background:       | Gelsolin was identified as a result of its ability to sever actin filaments in a Ca <sup>2+</sup> -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. |
| Molecular Weight: | 93 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pathways:         | <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Autophagy</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Application Details

|               |                                          |
|---------------|------------------------------------------|
| Comment:      | Related Products: ABIN968536, ABIN967389 |
| Restrictions: | For Research Use only                    |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 250 µg/mL                                                                                                              |
| Buffer:            | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.                                          |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                 |
| Storage Comment:   | Store undiluted at -20° C.                                                                                             |

## Publications

Product cited in:

Wang, Xie, Du, Wu, Feng, Mei, McDonald, Xiong: "Regulation of the formation of osteoclastic actin rings by proline-rich tyrosine kinase 2 interacting with gelsolin." in: **The Journal of cell biology**, Vol. 160, Issue 4, pp. 565-75, (2003) ([PubMed](#)).

Arnt, Chiorean, Heldebrant, Gores, Kaufmann: "Synthetic Smac/DIABLO peptides enhance the effects of chemotherapeutic agents by binding XIAP and cIAP1 in situ." in: **The Journal of biological chemistry**, Vol. 277, Issue 46, pp. 44236-43, (2002) ([PubMed](#)).

De Botton, Sabri, Daugas, Zermati, Guidotti, Hermine, Kroemer, Vainchenker, Debili: "Platelet formation is the consequence of caspase activation within megakaryocytes." in: **Blood**, Vol. 100, Issue 4, pp. 1310-7, (2002) ([PubMed](#)).

Slee, Adrain, Martin: "Executioner caspase-3, -6, and -7 perform distinct, non-redundant roles during the demolition phase of apoptosis." in: **The Journal of biological chemistry**, Vol. 276, Issue 10, pp. 7320-6, (2001) ([PubMed](#)).

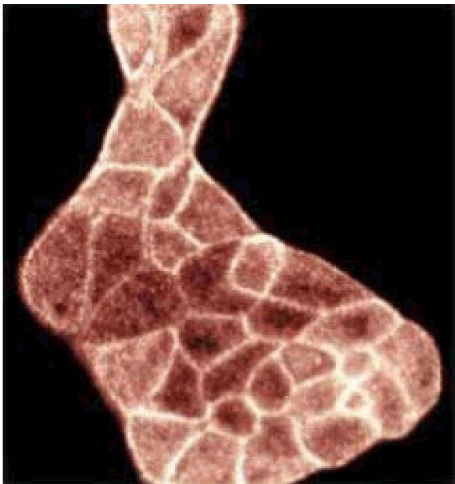
Kwiatkowski, Stossel, Orkin, Mole, Colten, Yin: "Plasma and cytoplasmic gelsolins are encoded by a single gene and contain a duplicated actin-binding domain." in: **Nature**, Vol. 323, Issue 6087, pp. 455-8, (1986) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** 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.



**Image 2.** Immunostaining on MDCK cells

**Image 3.**

