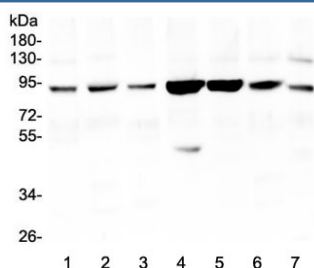


## Gelsolin Antibody (R31221)

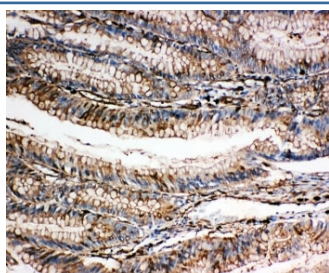
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| R31221      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

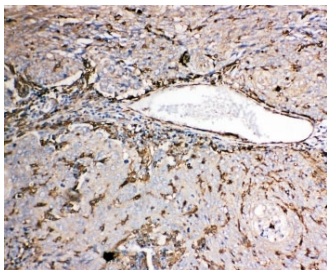
|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                        |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                        |
| <b>Format</b>             | Antigen affinity purified                                                                |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                               |
| <b>Isotype</b>            | Rabbit IgG                                                                               |
| <b>Purity</b>             | Antigen affinity                                                                         |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal                 |
| <b>UniProt</b>            | P06396                                                                                   |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 0.5-1ug/ml<br>Immunocytochemistry : 0.5-1ug/ml |
| <b>Limitations</b>        | This Gelsolin antibody is available for research use only.                               |



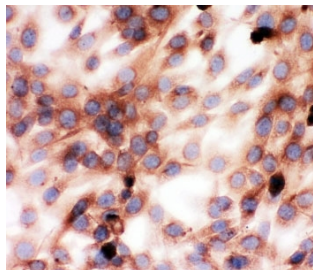
Western blot testing of 1) human HeLa, 2) (h) THP1, 3) (h) A549, 4) monkey COS-7, 5) (h) Caco-2, 6) (h) K562 and 7) (h) HL-60 lysate with Gelsolin antibody at 0.5ug/ml. Predicted molecular weight ~86 kDa.



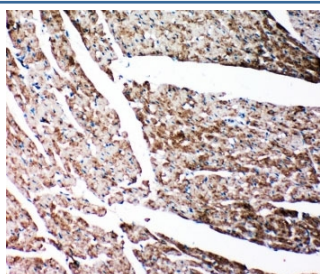
IHC-P: Gelsolin antibody testing of human intestine cancer tissue. HIER: steamed with pH6 citrate buffer.



IHC-P: Gelsolin antibody testing of human lung cancer tissue. HIER: steamed with pH6 citrate buffer.



ICC testing of Gelsolin antibody and mouse NIH3T3 cells. HIER: steamed with pH6 citrate buffer.



IHC-P: Gelsolin antibody testing of rat heart tissue. HIER: steamed with pH6 citrate buffer.

## Description

Gelsolin also known as GNS is an actin-binding protein that is a key regulator of actin filament assembly and disassembly. It is one of the most potent members of the actin-severing gelsolin/villin superfamily. The gene was assigned to human chromosome 9q33.2. Gelsolin is also known as brevin, or actin-depolymerizing factor; it is the principal intracellular and extracellular actin-severing protein. Gelsolin and Gc protein together constitute the extracellular actin-scavenger system which prevents the toxic effects of actin release into the extracellular space under circumstances of cell necrosis. It may have therapeutic potential as a mucolytic agent in CF patients. The antiapoptotic activity of Gelsolin seems to prevent a step leading to cytochrome c release from the mitochondria into the cytosol.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Gelsolin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Amino acids 763-775 (WDDDYWSVDPLDR-human) were used as the immunogen for this Gelsolin antibody (100% rat homology).

## Storage

After reconstitution, the Gelsolin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

