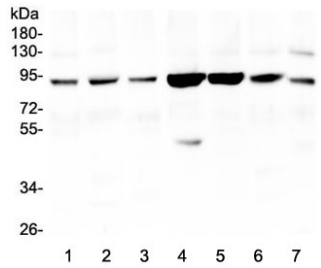
Gelsolin Antibody / Actin Severing Protein Antibody (R31221)

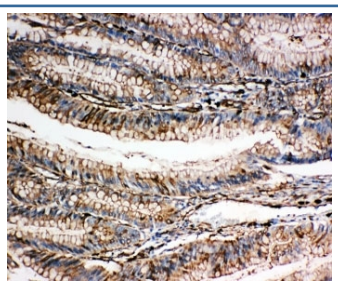
Catalog No.	Formulation	Size
R31221	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

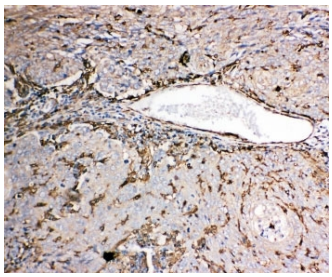
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P06396
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml Immunocytochemistry: 0.5-1ug/ml
Limitations	This Gelsolin Antibody / Actin Severing Protein Antibody is available for research use only.



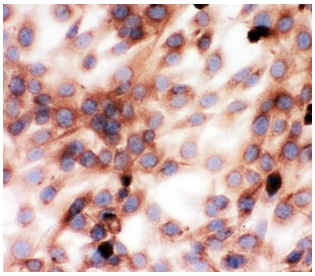
Gelsolin Antibody in Human and Monkey Cell Lines WB. Western blot testing of Gelsolin Antibody / Actin Severing Protein Antibody in human HeLa, THP-1, A549, Caco-2, K562 and HL-60 cell lysates and monkey COS-7 cell lysate at 0.5 ug/ml. A prominent band is detected at approximately 86 kDa, consistent with the predicted molecular weight of gelsolin. This Gelsolin Antibody demonstrates detection of GSN across multiple epithelial, hematopoietic and cancer-derived cell lines.



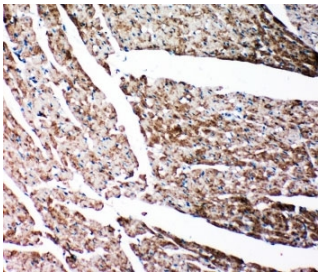
Gelsolin Antibody in Human Intestinal Cancer IHC. Immunohistochemistry testing of Gelsolin Antibody / Actin Severing Protein Antibody in FFPE human intestinal cancer tissue. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6 citrate buffer prior to staining. This Gelsolin Antibody demonstrates detection of GSN in human intestinal tumor tissue.



Gelsolin Antibody in Human Lung Cancer IHC. Immunohistochemistry testing of Gelsolin Antibody / Actin Severing Protein Antibody in FFPE human lung cancer tissue. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6 citrate buffer prior to staining. This Gelsolin Antibody demonstrates detection of GSN in human lung tumor tissue.



Gelsolin Antibody in Mouse NIH3T3 Fibroblasts ICC. Immunocytochemistry testing of Gelsolin Antibody / Actin Severing Protein Antibody in mouse NIH3T3 fibroblast cells. Heat-induced epitope retrieval was performed by steaming in pH 6 citrate buffer prior to staining. This Gelsolin Antibody demonstrates cellular detection of GSN in mouse fibroblasts.



Gelsolin Antibody in Rat Heart IHC. Immunohistochemistry testing of Gelsolin Antibody / Actin Severing Protein Antibody in FFPE rat heart tissue. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6 citrate buffer prior to staining. This Gelsolin Antibody demonstrates detection of GSN in rat cardiac tissue

Description

Gelsolin Antibody / Actin Severing Protein Antibody recognizes GSN, a calcium-regulated actin-binding protein that controls the assembly and disassembly of actin filaments. Gelsolin is a prominent member of the gelsolin/villin superfamily and functions through actin filament severing, capping and nucleation. By remodeling filamentous actin, GSN contributes to dynamic changes in cell shape, motility, adhesion, migration and other processes dependent on cytoskeletal organization.

Gelsolin exists in intracellular and secreted forms generated through alternative transcription initiation and splicing. Cytoplasmic gelsolin participates directly in actin cytoskeleton remodeling, while plasma gelsolin contributes to the extracellular actin-scavenging system. Following tissue injury or cell death, extracellular actin can accumulate in the circulation, where plasma gelsolin binds and clears actin filaments. These distinct forms make gelsolin relevant to research involving both intracellular cytoskeletal dynamics and extracellular responses to tissue damage.

Beyond its structural role, GSN has been investigated in cell survival, apoptosis and cancer biology. Interactions between gelsolin-regulated actin remodeling and signaling pathways can influence cell migration, invasion and resistance to apoptotic stimuli. Altered gelsolin expression has been reported in multiple tumor types, making the protein useful for studies of cancer cell behavior and cytoskeletal reorganization. Pathogenic variants in GSN are also associated with gelsolin amyloidosis, historically known as familial amyloidosis of the Finnish type.

This rabbit polyclonal antibody was generated against a peptide corresponding to amino acids 763-775 of human gelsolin and is antigen affinity purified. The immunizing sequence is conserved in rat gelsolin, and the antibody is reactive with human, mouse and rat samples. NSJ Bioreagents provides this Gelsolin Antibody for research into actin organization, cytoskeletal remodeling and gelsolin biology. An Actin Severing Protein Antibody targeting GSN can support investigation of the mechanisms regulating actin filament turnover and cellular architecture.

Explore our Signal Transduction Antibodies page for additional reagents targeting proteins involved in calcium-responsive

signaling, cytoskeletal regulation and cellular responses.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Gelsolin Antibody / Actin Severing Protein 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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

GSN antibody, gelsolin antibody, actin-depolymerizing factor antibody, brevin antibody

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