

**Anti-Gelsolin Picoband Antibody**  
Catalog # ABO11900

**Specification**

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**Anti-Gelsolin Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P06396</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Gelsolin(GSN) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Gelsolin Picoband Antibody - Additional Information**

**Gene ID** 2934

**Other Names**

Gelsolin, AGEL, Actin-depolymerizing factor, ADF, Brevin, GSN

**Calculated MW**

85698 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human

**Subcellular Localization**

Isoform 2: Cytoplasm, cytoskeleton.

**Tissue Specificity**

Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.

**Protein Name**

Gelsolin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human Gelsolin recombinant protein (Position: E580-A782). Human Gelsolin shares 94% and 95% amino acid (aa) sequences identity with mouse and rat Gelsolin, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the villin/gelsolin family.

**Anti-Gelsolin Picoband Antibody - Protein Information**

**Name** GSN

**Function**

Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed (PubMed: [19666512](http://www.uniprot.org/citations/19666512)). Plays a role in ciliogenesis (PubMed: [20393563](http://www.uniprot.org/citations/20393563)).

**Cellular Location**

[Isoform 2]: Cytoplasm, cytoskeleton.

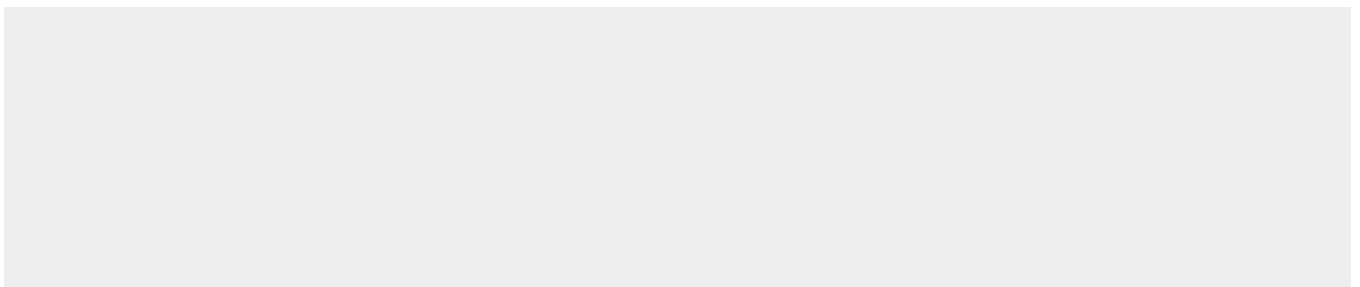
**Tissue Location**

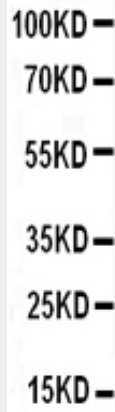
Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells

**Anti-Gelsolin Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

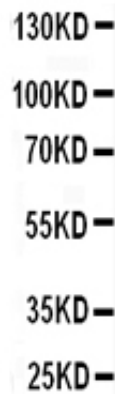
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Gelsolin Picoband Antibody - Images**



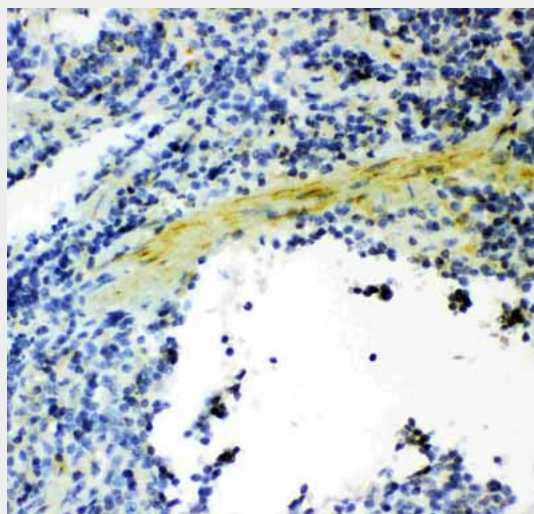
100KD -  
70KD -  
55KD -  
35KD -  
25KD -  
15KD -

Anti- Gelsolin antibody, ABO11900, Western blotting All lanes: Anti Gelsolin (ABO11900) at 0.5ug/ml WB: Recombinant Human Gelsolin Protein 0.5ng Predicted bind size: 40KD Observed bind size: 40KD

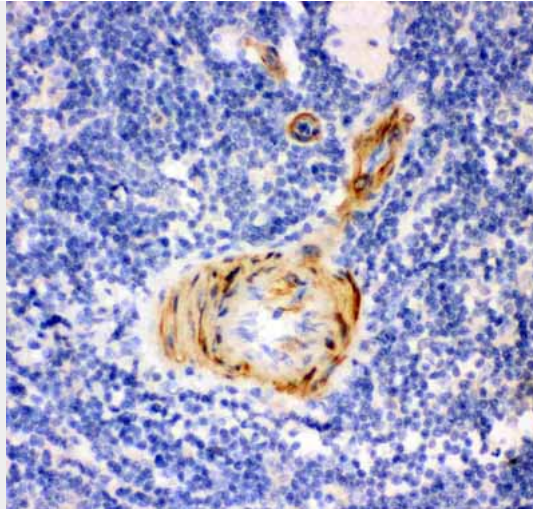


130KD -  
100KD -  
70KD -  
55KD -  
35KD -  
25KD -

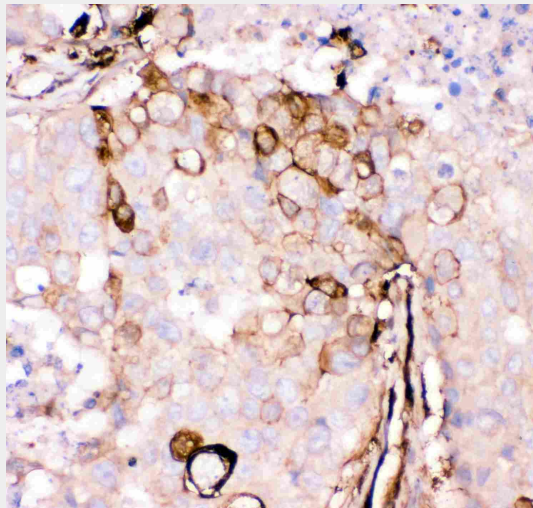
Anti- Gelsolin antibody, ABO11900, Western blotting All lanes: Anti Gelsolin (ABO11900) at 0.5ug/ml WB: A431 Whole Cell Lysate at 40ug Predicted bind size: 86KD Observed bind size: 86KD



Anti- Gelsolin antibody, ABO11900, IHC(P) IHC(P): Mouse Spleen Tissue



Anti- Gelsolin antibody, ABO11900, IHC(P)IHC(P): Rat Spleen Tissue



Anti- Gelsolin antibody, ABO11900, IHC(P)IHC(P): Human Mammary Cancer Tissue

### **Anti-Gelsolin Picoband Antibody - Background**

Gelsolin, also known as GNS or brevin, is an actin-binding protein that is a key regulator of actin filament assembly and disassembly. Gelsolin is one of the most potent members of the actin-severing gelsolin/villin superfamily. The gene was assigned to human chromosome 9q33.2. 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. Gelsolin 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.