

## **Anti-Gelsolin Picoband Antibody**

Catalog # ABO11900

# Specification

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

Application WB, IHC-P
Primary Accession P06396
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal 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  $\mu$ g/ml, Human, Mouse, Rat, By Heat<br/>br>Western blot, 0.1-0.5  $\mu$ g/ml, Human<br/>br>

### **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 Na2HPO4, 0.05mg NaN3.

# **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 r°Constitution, 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:<a href="http://www.uniprot.org/citations/19666512" target="\_blank">19666512</a>). Plays a role in ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/20393563" target="\_blank">20393563</a>).

#### **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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Anti-Gelsolin Picoband Antibody - Images

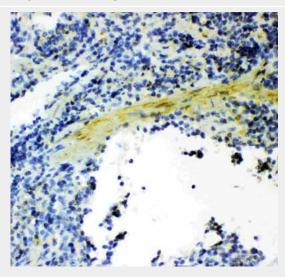


100KD — 70KD — 55KD — 35KD — 25KD —

Anti- Gelsolin antibody, ABO11900, Western blottingAll lanes: Anti Gelsolin (ABO11900) at 0.5ug/mlWB: Recombinant Human Gelsolin Protein 0.5ngPredicted bind size: 40KDObserved bind size: 40KD

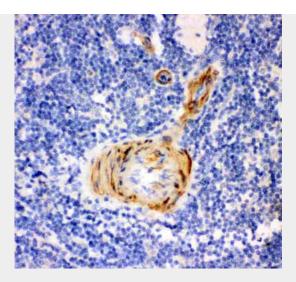
130KD -100KD -70KD -55KD -35KD -25KD -

Anti- Gelsolin antibody, ABO11900, Western blottingAll lanes: Anti Gelsolin (ABO11900) at 0.5ug/mlWB: A431 Whole Cell Lysate at 40ugPredicted bind size: 86KDObserved bind size: 86KD

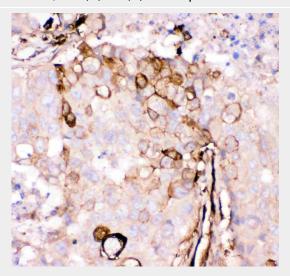


Anti- Gelsolin antibody, ABO11900, IHC(P)IHC(P): Mouse Spleen Tissue





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.