10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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**
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 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:19666512). Plays a role in ciliogenesis (PubMed:20393563).

Cellular Location
[Isoform 2]: Cytoplasm, cytoskeleton.

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

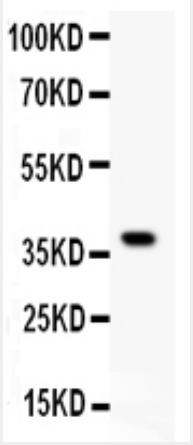
Anti-Gelsolin Picoband Antibody - Protocols

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

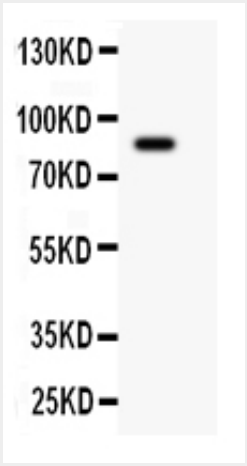
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Gelsolin Picoband Antibody - Images

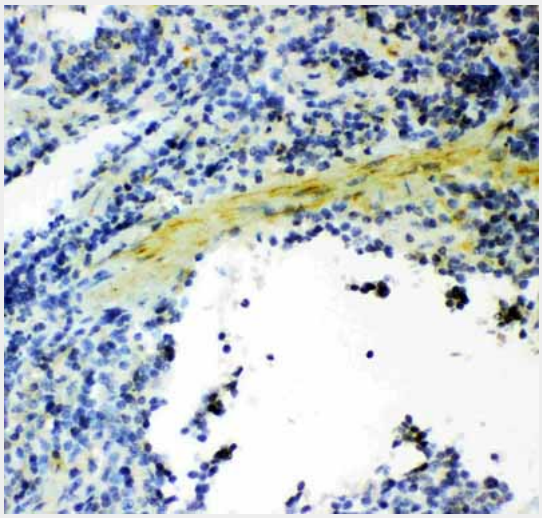
10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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

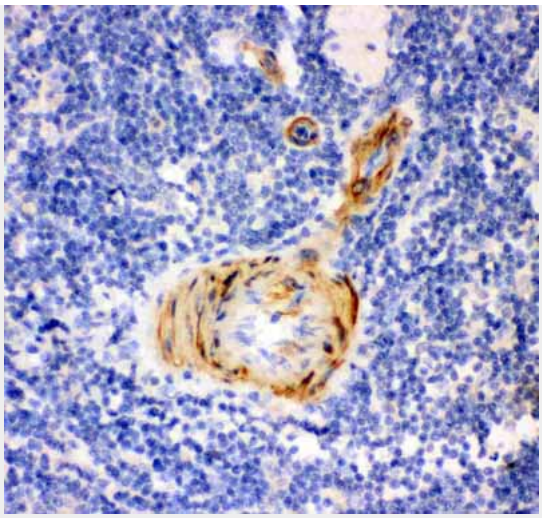


Anti- Gelsolin antibody, ABO11900, Western blottingAll lanes: Anti Gelsolin (ABO11900) at 0.5ug/mlWB: A431 Whole Cell Lysate at 40ugPredicted bind size: 86KDObserved bind size: 86KD

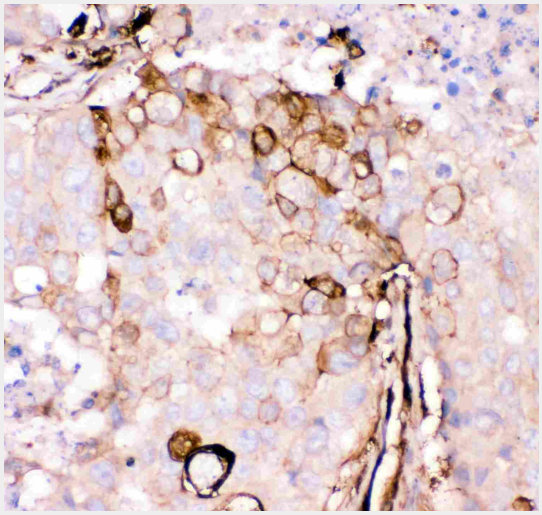


Anti- Gelsolin antibody, ABO11900, IHC(P)IHC(P): Mouse Spleen Tissue

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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.