

Datasheet for 200-301-P37**Gelsolin Antibody****Overview**

Description:	Anti-Gelsolin (MOUSE) Antibody - 200-301-P37
Item No.:	200-301-P37
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Rabbit
Host Species:	Mouse

Product Details

Background:	Gelsolin, a protein of leukocytes, platelets, and other cells, severs actin filaments in the presence of submicromolar calcium, thereby solating cytoplasmic actin gels. A gelsolin variant with 23 more N-terminal amino acids is a plasma component probably involved in the clearance of actin, the most abundant human protein, from the circulation. Gelsolin is located in 9q34. Plasma and cytoplasmic gelsolins are encoded by a single gene and contain a duplicated actin-binding domain. This antibody is suitable for researchers interested in cell research and cytoskeletal signaling research.
Synonyms:	AGEL, ADF, Brevin, Actin-depolymerizing factor
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	GS-2C4
Format:	IgG1

Target Details

Gene Name:	GSN
Reactivity:	Human, Rabbit
Immunogen Type:	Other
Immunogen:	Gelsolin antibody was produced in mice by repeated immunizations with human plasma gelsolin.

Purity/Specificity: Anti-Gelsolin antibody was purified from mouse ascites by protein A chromatography. This product reacts with human and rabbit. Cross reactivity with Gelsolin from other sources has not been determined.

Relevant Links:

- [UniProtKB - P06396](#)
- [GeneID - 2934](#)
- [NCBI - NP_000168.1](#)

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Gelsolin is tested for Immunohistochemistry-P, Immunohistochemistry-F and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~85.7 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	1:100-1:500
WB:	0.5-1 µg/mL

Formulation

Physical State:	Lyophilized
Concentration:	100 µg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

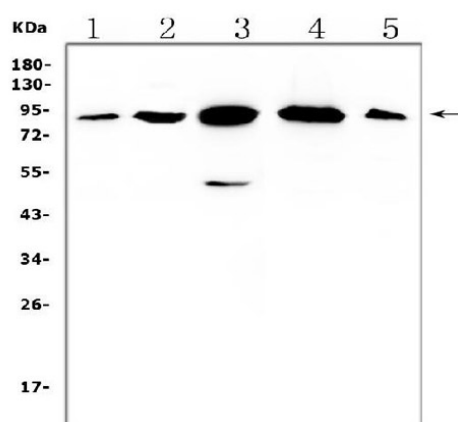
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

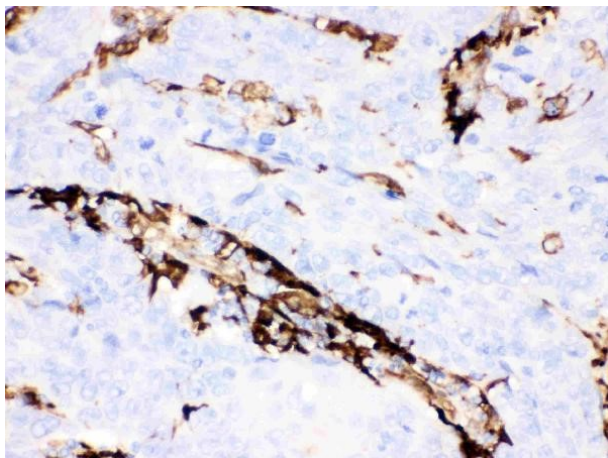
Western blot analysis of Gelsolin using anti-Gelsolin antibody.

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions.

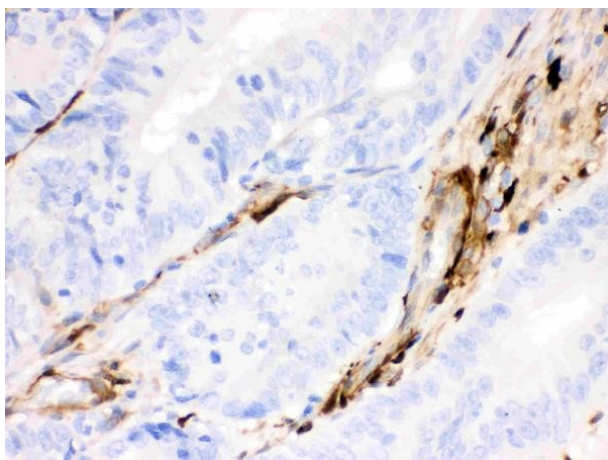
Lane 1: human Hela whole cell lysate, Lane 2: human A549 whole cell lysate, Lane 3: monkey COS-7 whole cell lysate, Lane 4: human Caco-2 whole cell lysate, Lane 5: human HepG2 whole cell lysate.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with affinity purified mouse anti-Gelsolin antigen monoclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at 1:10,000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Gelsolin at approximately 90KD. The expected band size for Gelsolin is at 86KD.

**Immunohistochemistry**

Immunohistochemistry of Anti-Gelsolin antibody.
Tissue: Human Lung Cancer Tissue. IHC (P).

**Immunohistochemistry**

Immunohistochemistry of Anti-Gelsolin antibody.
Tissue: Human Intestinal Cancer Tissue. IHC(P).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.