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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

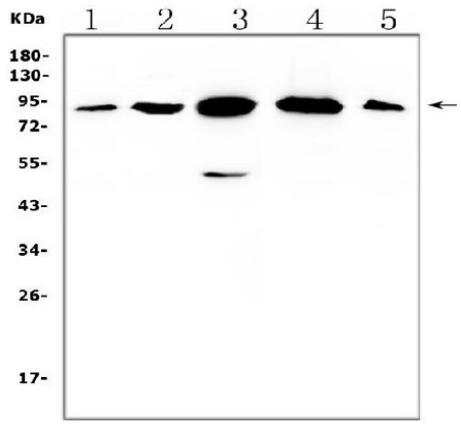
Physical State:	Lyophilized
Concentration:	100 µg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

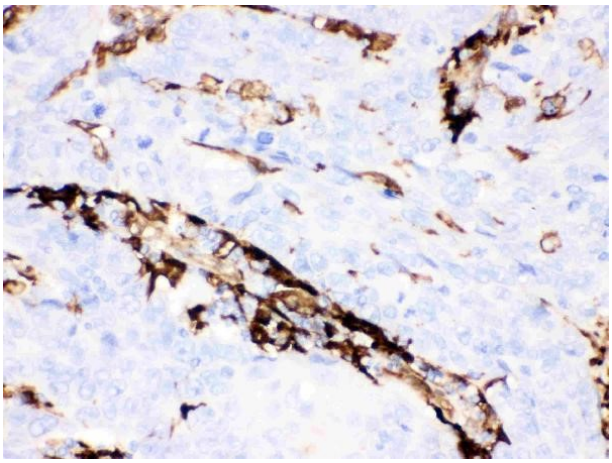
Shipping Condition:	Ambient

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.

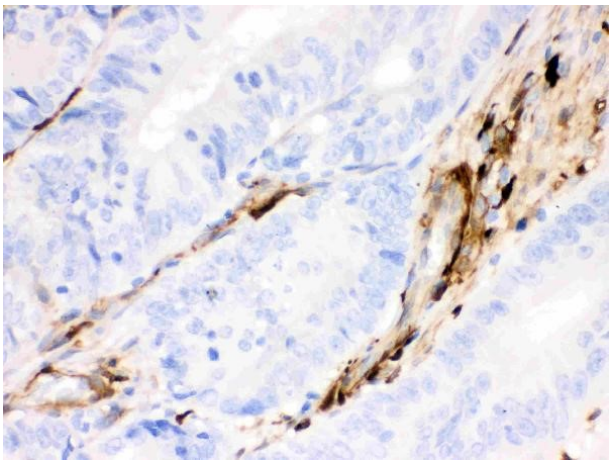
Images



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).

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