

Anti-Gelsolin antibody [GS-2C4] ab11081

KO 評価済

★★★★★ [6 Abreviews](#) [20 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Gelsolin antibody [GS-2C4]
製品の詳細	Mouse monoclonal [GS-2C4] to Gelsolin
由来種	Mouse
アプリケーション	適用あり: WB, ICC/IF, IP
種交差性	交差種: Human
免疫原	Full length native protein (purified) corresponding to Human Gelsolin. Database link: P06396-1
エピトープ	The antibody is directed against an epitope located on the 47 kD peptide derived from a chymotryptic cleavage of gelsolin. This peptide contains the carboxy terminal actin binding site for gelsolin.
ポジティブ・コントロール	IP: U-2 OS cell lysate. WB: HeLa cell lysate.
特記事項	<p>This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.097% Sodium azide
精製度	Tissue culture supernatant

ポリ/モノ	モノクローナル
クローン名	GS-2C4
アイソタイプ	IgG1

アプリケーション

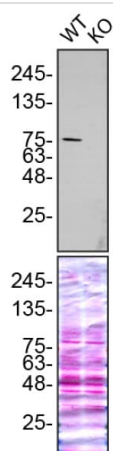
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab11081の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (4)	Use at an assay dependent concentration. Predicted molecular weight: 86 kDa.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

ターゲット情報

機能	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. Plays a role in ciliogenesis.
組織特異性	Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.
関連疾患	Defects in GSN are the cause of amyloidosis type 5 (AMYL5) [MIM:105120]; also known as familial amyloidosis Finnish type. AMYL5 is a hereditary generalized amyloidosis due to gelsolin amyloid deposition. It is typically characterized by cranial neuropathy and lattice corneal dystrophy. Most patients have modest involvement of internal organs, but severe systemic disease can develop in some individuals causing peripheral polyneuropathy, amyloid cardiomyopathy, and nephrotic syndrome leading to renal failure.
配列類似性	Belongs to the villin/gelsolin family. Contains 6 gelsolin-like repeats.
翻訳後修飾	Phosphorylation on Tyr-86, Tyr-409, Tyr-465, Tyr-603 and Tyr-651 in vitro is induced in presence of phospholipids.
細胞内局在	Cytoplasm > cytoskeleton and Secreted.

画像



Western blot - Anti-Gelsolin antibody [GS-2C4] (ab11081)

All lanes : Anti-Gelsolin antibody [GS-2C4] (ab11081) at 1/200 dilution

Lane 1 : Wild-type HeLa cell lysate

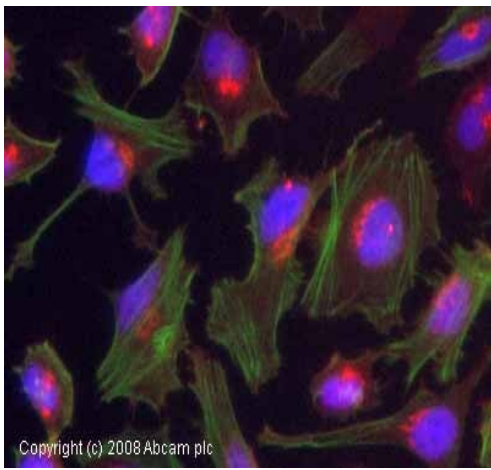
Lane 2 : GSN knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 86 kDa

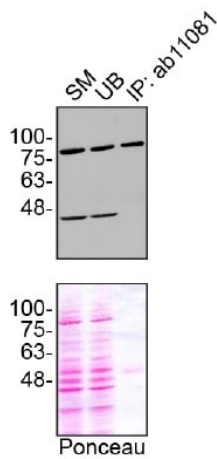
ab11081 was shown to react with GSN in wild-type HeLa cells in Western blot with loss of signal observed in GSN knockout cell line **ab265201** (GSN knockout cell lysate **ab257204**). Wild-type HeLa and GSN knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab11081 overnight at 4 °C at a 1/200 dilution. Blots were incubated with goat anti-mouse HRP secondary antibodies at 1/5000 before imaging. This data was kindly provided by the YCharOS Inc., an open science company with the mission of characterizing every commercially available antibody reagent. Abcam are working with YCharOS to support their mission of antibody characterisation using knockout cell lines.



Immunocytochemistry/ Immunofluorescence - Anti-Gelsolin antibody [GS-2C4] (ab11081)

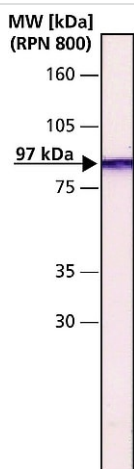
ICC/IF image of ab11081 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab11081, 1 µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in Hek293, HepG2 and MCF7 cells.

This image was generated using the ascites version of the product.



Immunoprecipitation - Anti-Gelsolin antibody [GS-2C4] (ab11081)

Immunoprecipitation of GSN in U-2 OS cells. Lysates were prepared and immunoprecipitation was performed using 1.0 µg of ab11081 pre-coupled to beads. Samples were washed and processed for western blot with ab11081. SM=10% starting material; UB=10% unbound fraction; IP=immunoprecipitate. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Western blot - Anti-Gelsolin antibody [GS-2C4] (ab11081)

Anti-Gelsolin antibody [GS-2C4] (ab11081) at 1/2000 dilution + Human Plasma

Secondary

AP conjugated anti-mouse Fab IgG

Performed under reducing conditions.

Predicted band size: 86 kDa

This image was generated using the ascites version of the product.

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