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GSN Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7326a

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P06396
Other Accession	Q3SX14
Reactivity	Human, Rat, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18721
Calculated MW	85698
Antigen Region	230-259

Additional Information

Gene ID	2934
Other Names	Gelsolin, AGEL, Actin-depolymerizing factor, ADF, Brevin, GSN
Target/Specificity	This GSN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 230-259 amino acids from the N-terminal region of human GSN.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GSN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

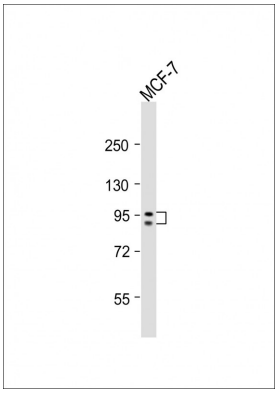
Background

GSN binds to the 'plus' ends of actin monomers and filaments to prevent monomer exchange. The calcium-regulated protein functions in both assembly and disassembly of actin filaments. Defects in this protein are a cause of familial amyloidosis Finnish type (FAF).

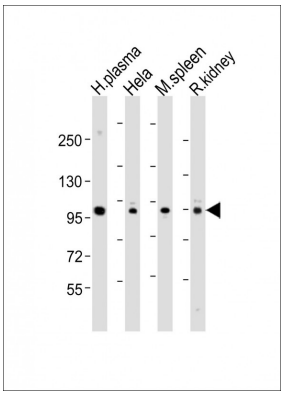
References

Li,Q., Ye,Z. Biochem. Biophys. Res. Commun. 385 (2), 284-289 (2009)
Walsh,N., Dowling,P. J Proteomics 71 (5), 561-571 (2008)
Paunio,T., Kiuru,S. Genomics 13 (1), 237-239 (1992)

Images

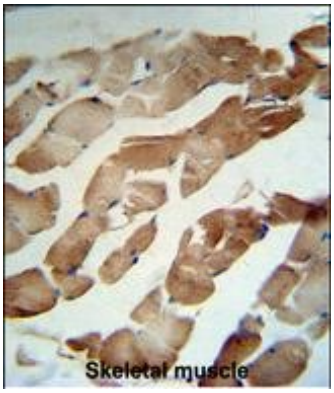


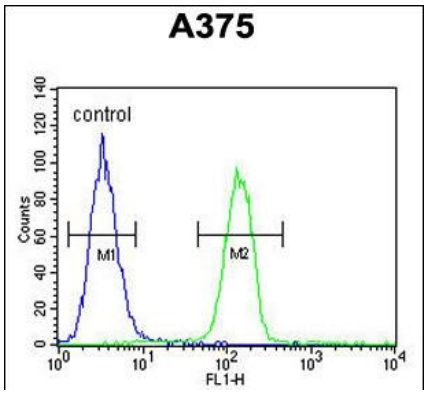
Anti-GSN Antibody (N-term)at 1:2000 dilution + MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-GSN Antibody (N-term) at 1:1000-1:2000 dilution Lane 1: human plasma lysates Lane 2: Hela whole cell lysates Lane 3: mouse spleen lysates Lane 4: rat kidney lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GSN Antibody (N-term) (RB18721) IHC analysis in formalin fixed and paraffin embedded human Skeletal muscle tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GSN Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.





GSN Antibody (N-term) (Cat. #AP7326a) flow cytometric analysis of A375 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.