Gelsolin/GSN (GSN) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	Gelsolin/GSN, Polyclonal Antibody
Full Product Name	Goat anti-Gelsolin/GSN Antibody
Product Gene Name	anti-GSN antibody
Product Synonym Names	Goat Anti-Gelsolin (isoform a) Antibody; GSN; gelsolin; gelsolin (amyloidosis, Finnish type); DKFZp313L0718; GSN antibody; gelsolin antibody; gelsolin (amyloidosis; Finnish type) antibody; DKFZp313L0718 antibody; Gelsolin; Gelsolin / GSN
Immunogen Sequence	PRLKDKKMDA HP
Clonality	Polyclonal
Host	Goat
Species Reactivity	Tested: Human; Expected from sequence similarity: Human, Mouse, Rat, Dog
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0. 02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	Gelsolin / GSN peptide (MBS425251) is used for blocking the activity of Gelsolin/GSN antibody (MBS420495)
Molecular Weight	81,485 Da
OMIM	105120
Immunogen	Peptide with sequence C-PRLKDKKMDAHP, from the internal region of the protein sequence according to NP_000168.1; NP_937895.1.
Epitope	Internal region
Note	This antibody is expected to recognize both reported isoforms (NP_000168.1 and NP_937895.1).
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-GSN antibody	Peptide ELISA (EIA), Western Blot (WB)
Application Notes for anti-GSN antibody	Peptide ELISA: Antibody detection limit dilution 1: 128000. Western Blot: Approx 90kDa band observed in Human Spleen lysates (calculated MW of 85.7kDa according to NP_000168.1). Recommended concentration: 0.1-0.3ug/ml.
Related Product Information for anti-GSN antibody	MBS420495 is an antibody targeting GSN. Also known as Goat anti-Gelsolin/GSN Antibody. Reactive in Tested: Human; Expected from sequence similarity: Human, Mouse, Rat, Dog. Host: Goat.
Other Notes	Small volumes of anti-GSN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GSN antibody
(0.1ug/ml) staining of Human Spleen lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSN. It may not necessarily be applicable to this product.

NCBI GI #	4504165
NCBI GeneID	2934
NCBI Accession #	NP_000168.1
NCBI Related Accession #	NP_937895.1
UniProt Secondary Accession #	Q5T0I2; Q8WVV7; A2A418; A8MUD1; A8MYN7; B7Z373; B7Z5V1; F5H1A8
UniProt Related Accession #	P06396
GenBank Nucleotide #	NM_000177.4
NCBI Official Full Name	gelsolin isoform a
NCBI Official Synonym Full Names	gelsolin
NCBI Official Symbol	GSN
NCBI Official Synonym Symbols	ADF; AGEL
UniProt Protein Name	Gelsolin
UniProt Synonym Protein Names	AGEL; Actin-depolymerizing factor; ADF; Brevin
UniProt Gene Name	GSN
UniProt Synonym Gene Names	ADF
UniProt Entry Name	GELS_HUMAN
NCBI Protein Information	gelsolin
NCBI Summary for GSN	The protein encoded by this gene binds to the "plus" ends of actin monomers and filaments to prevent monomer exchange. The encoded calcium-regulated protein functions in both assembly and disassembly of actin filaments. Defects in this gene are a cause of familial amyloidosis Finnish type (FAF). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for GSN	Gelsolin: a 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. Its expression is significantly decreased in many tumors and transformed cell lines. Gelsolin and other proteins including E-cadherin, BRCA, p21WAF, HoxA5, and retinoic acid receptor II are regulated by epigenetic changes in breast cancers. Gelsolin helps mediate the ability of HDAC inhibitors to protect neurons from oxygen/glucose deprivation. Two human isoforms are produced by alternative initiation. Protein type: Secreted; Actin-binding; Secreted, signal peptide; Motility/polarity/chemotaxis; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 9q33 Cellular Component: actin cap; actin cytoskeleton; cortical actin cytoskeleton; cytoplasm; cytosol; extracellular region; extracellular space; focal adhesion; lamellipodium; myelin sheath; nucleus; perinuclear region of cytoplasm; plasma membrane; podosome; ruffle; sarcoplasm Molecular Function: actin binding; calcium ion binding; myosin II binding; protein binding; protein domain specific binding Biological Process: actin filament capping; actin filament polymerization; actin filament severing; actin nucleation; aging; barbed-end actin filament capping; cellular protein metabolic process; extracellular matrix disassembly; negative regulation of virion penetration into host cell; oligodendrocyte development; phagocytosis, engulfment; phosphoinositide-mediated signaling; positive regulation of actin nucleation; protein destabilization; response to ethanol; response to folic acid; sequestering of actin monomers; striated muscle atrophy; tissue regeneration Disease: Amyloidosis, Finnish Type
Research Articles on GSN	**1.** GSNs might play a regulatory role in the suppression of the tissue damage induced by acute radiation exposure
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-dog-human-mouse-rat-antibody/gelsolin-gsn/420495