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Gelsolin Recombinant Rabbit mAb

Catalog # AP100188

Product Information

Application	WB
Primary Accession	P06396
Other Accession	P06396
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	85698
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Gelsolin
Epitope Specificity	431-480/782
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the villin/gelsolin family. Contains 6 gelsolin-like repeats.
SUBUNIT	Binds to actin and to fibronectin. Identified in a complex composed of ACTA1, COBL, GSN AND TMSB4X.
Post-translational modifications	Phosphorylation on Tyr-86, Tyr-409, Tyr-465, Tyr-603 and Tyr-651 in vitro is induced in presence of phospholipids.
DISEASE	Amyloidosis 5 (AMYL5) [MIM:105120]: 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. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	bs-1160P is one synthetic peptide derived from human Gelsolin. Gelsolin is a calcium dependent actin binding protein. It is a potent modulator of actin filament length and gelation. Gelsolin has been shown to exist in at least two variant forms, cytoplasmic gelsolin and plasma gelsolin. Plasma gelsolin has also been called actin depolymerizing factor (ADF) or brevin. Human plasma and rabbit macrophage gelsolins differ by the presence of a 25 amino acid residue extension at the NH2 terminus in the human plasma gelsolin, which appears to account for the difference in relative molecular weights.

Additional Information

Gene ID	2934
Other Names	ADF; AGEL; AMYLD4; GELS_HUMAN; GSN; Actin-depolymerizing factor (ADF); Brevin; gelsolin; gelsolin (amyloidosis, Finnish type); amyloidosis, Finnish type

Dilution	WB=1:500-2000,ICC/IF=1:50-200,Flow-Cyt=1:50-100
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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