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CAPG Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CAPG.
Catalog # AT1387a

Product Information

Application	WB, IF, E
Primary Accession	P40121
Other Accession	BC000728
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1F1
Calculated MW	38499

Additional Information

Gene ID	822
Other Names	Macrophage-capping protein, Actin regulatory protein CAP-G, CAPG, AFCP, MCP
Target/Specificity	CAPG (AAH00728.1, 1 a.a. ~ 348 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CAPG Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

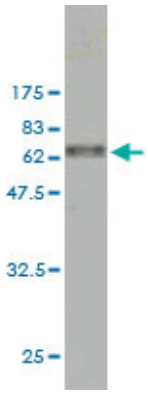
This gene encodes a member of the gelsolin/villin family of actin-regulatory proteins. The encoded protein reversibly blocks the barbed ends of F-actin filaments in a Ca2+ and phosphoinositide-regulated manner, but does not sever preformed actin filaments. By capping the barbed ends of actin filaments, the encoded protein contributes to the control of actin-based motility in non-muscle cells. Alternatively spliced transcript variants have been observed, but have not been fully described.

References

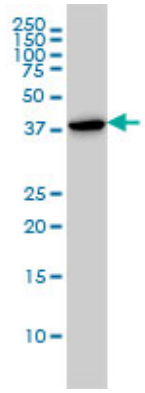
Proteomic study of macrophages exposed to oxLDL identifies a CAPG polymorphism associated with carotid

atherosclerosis. Burillo E, et al. Atherosclerosis, 2009 Nov. PMID 19439302.Proteomic analysis of the stroma-related proteins in nasopharyngeal carcinoma and normal nasopharyngeal epithelial tissues. Li MX, et al. Med Oncol, 2010 Mar. PMID 19242827.Up-regulation of two actin-associated proteins prompts pulmonary artery smooth muscle cell migration under hypoxia. Zhang R, et al. Am J Respir Cell Mol Biol, 2009 Oct. PMID 19188659.The actin-capping protein CapG localizes to microtubule-dependent organelles during the cell cycle. Hubert T, et al. Biochem Biophys Res Commun, 2009 Feb 27. PMID 19166812.Integrin alpha6beta4 controls the expression of genes associated with cell motility, invasion, and metastasis, including S100A4/metastasin. Chen M, et al. J Biol Chem, 2009 Jan 16. PMID 19011242.

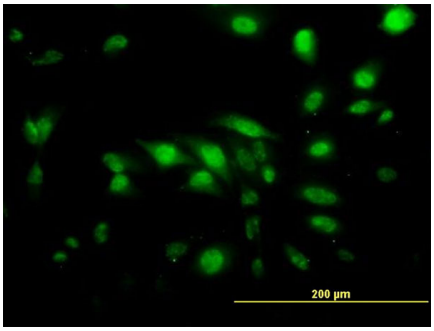
Images



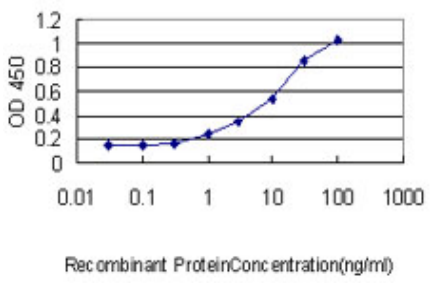
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (63.8 KDa) .



CAPG monoclonal antibody (M01), clone 1F1 Western Blot analysis of CAPG expression in HL-60 ((Cat # AT1387a)



Immunofluorescence of monoclonal antibody to CAPG on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CAPG is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.