

**CAPG Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16057C**

**Specification**

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**CAPG Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P40121</a>
Other Accession	<a href="#">Q6AYC4</a> , <a href="#">P24452</a> , <a href="#">NP_001738.2</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38499
Antigen Region	181-209

**CAPG Antibody (Center) - Additional Information**

**Gene ID** 822

**Other Names**

Macrophage-capping protein, Actin regulatory protein CAP-G, CAPG, AFCP, MCP

**Target/Specificity**

This CAPG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 181-209 amino acids from the Central region of human CAPG.

**Dilution**

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 purified through a protein A column, followed by peptide affinity purification.

**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**

CAPG Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAPG Antibody (Center) - Protein Information**

**Name** CAPG

**Synonyms** AFCP, MCP

**Function** Calcium-sensitive protein which reversibly blocks the barbed ends of actin filaments but does not sever preformed actin filaments. May play an important role in macrophage function. May play a role in regulating cytoplasmic and/or nuclear structures through potential interactions with actin. May bind DNA.

**Cellular Location**

Nucleus. Cytoplasm Melanosome. Cell projection, lamellipodium {ECO:0000250|UniProtKB:P24452}. Cell projection, ruffle {ECO:0000250|UniProtKB:P24452}. Note=In macrophages, may be predominantly cytoplasmic. Nuclear localization was observed in fibroblasts. In macrophages, present at the membrane-cytoplasm interface. In activated macrophages, concentrated in the ruffles of the leading lamellipodia. {ECO:0000250|UniProtKB:P24452}

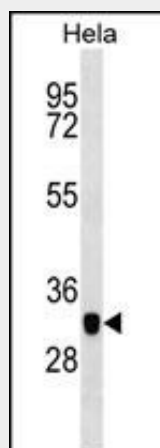
**Tissue Location**

Macrophages and macrophage-like cells.

**CAPG Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CAPG Antibody (Center) - Images**

CAPG Antibody (Center) (Cat. #AP16057c) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the CAPG antibody detected the CAPG protein (arrow).

**CAPG Antibody (Center) - 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  $\text{Ca}^{2+}$  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. [provided by RefSeq].

#### **CAPG Antibody (Center) - References**

Li, M.X., et al. Med. Oncol. 27(1):134-144(2010)  
Burillo, E., et al. Atherosclerosis 207(1):32-37(2009)  
Zhang, R., et al. Am. J. Respir. Cell Mol. Biol. 41(4):467-475(2009)  
Hubert, T., et al. Biochem. Biophys. Res. Commun. 380(1):166-170(2009)  
Chen, M., et al. J. Biol. Chem. 284(3):1484-1494(2009)