

CAPG Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16057c**Specification**

CAPG Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P40121](#)

CAPG Antibody (Center) Blocking Peptide - Additional Information

Gene ID 822

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CAPG Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CAPG Antibody (Center) Blocking Peptide - Images

CAPG Antibody (Center) Blocking Peptide - 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 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) Blocking Peptide - 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)