

# CAPG Antibody

*Capping Protein Gelsolin-Like, Mouse Anti Human*  
ABM0070

## Product Overview

Name CAPG Antibody

### Description

Capping Protein Gelsolin-Like, Mouse Anti Human

### Synonyms

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

### Introduction

CAPG is part of the gelsolin/villin family of actin-regulatory proteins. CAPG reversibly blocks the barbed ends of F-actin filaments in a Ca<sup>2+</sup> and phosphoinositide-regulated method, though it does not separate preformed actin filaments. By capping the barbed ends of actin filaments, CAPG contributes to the control of actin-based motility in non-muscle cells. CAPG is involved in macrophage function. CAPG is involved in regulating cytoplasmic and/or nuclear structures via possible interactions with actin. CAPG binds DNA. CAPG lacks a nuclear export sequence present in structurally related proteins. CAPG is a tumor suppressor protein that plays a role in the tumorigenic progression of certain cancers. Dysregulated expression of CAPG was found in premalignant and malignant oral carcinogenesis.

### Source

Escherichia Coli.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The protein solution (1mg/ml) contains 20mM Tris buffer pH-8, 1mM DTT and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino acid sequence

MYTAIPQSGS PFPQSVQDPG LHVWRVEKLG PVPVAQENQG VFFSGDSYLV LHNGPEEVSH LHLWIGQQSS  
RDEQGACAVL AVHLNLLGE RPVQHREVGQ NESDLFMSYF PRGLKYQEGG VESAFHKTST GAPAAIKKLY  
QVKGKKNIRA TERALNWDSF NTGDCFILDG QNIFAWCGG KSNILERNKA RDLALAIRDS ERQGKAQVEI

VTDGEEPAEM IQVLGPKPAL KEGNPEEDLT ADKANAQAAA LYKVSDATGQ MNLTKVADSS PFALELLISD  
DCFVLDNGLC GKIYIWKGRK ANEKERQAAL QVAEGFISRM QYAPNTQVEI LPQGRESPIF KQFFKDWK.

### **Precautions**

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