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KD-Validated Anti-CAPG Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1351

Specification

KD-Validated Anti-CAPG Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P40121
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 38 kDa; observed, 38 kDa KDa**
Gene Name	**CAPG**
Aliases	**CAPG; Capping Actin Protein, Gelsolin Like; MCP; AFCP; Capping Protein (Actin Filament), Gelsolin-Like; Macrophage-Capping Protein; Epididymis Secretory Protein Li 66; Actin-Regulatory Protein CAP-G; Actin Regulatory Protein CAP-G; Gelsolin-Like Capping Protein; Macrophage Capping Protein; HEL-S-66**
Immunogen	**A synthesized peptide derived from human CAPG**

KD-Validated Anti-CAPG Rabbit Monoclonal Antibody - Additional Information

Gene ID	**822**

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

KD-Validated Anti-CAPG Rabbit Monoclonal Antibody - 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}

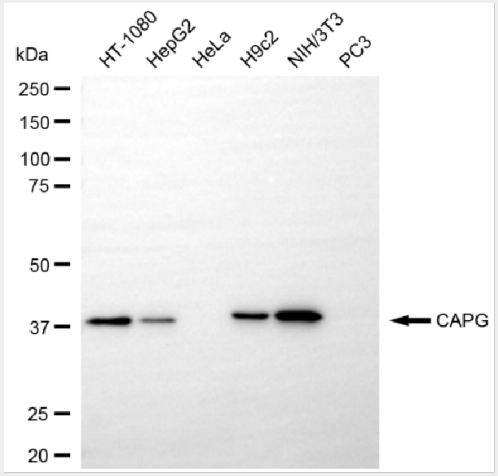
Tissue Location
Macrophages and macrophage-like cells.

KD-Validated Anti-CAPG Rabbit Monoclonal Antibody - Protocols

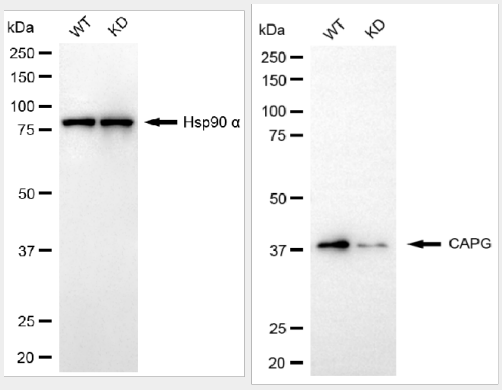
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CAPG Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CAPG antibody (Cat#61619). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CAPG antibody (Cat#61619, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



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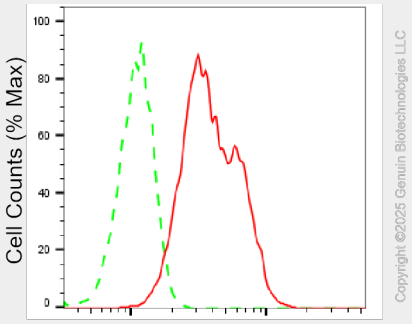
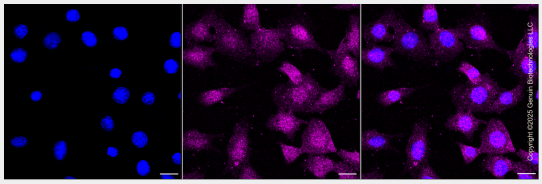
Western blotting analysis using anti-CAPG antibody (Cat#61619). CAPG expression in wild-type (WT) and CAPG knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CAPG antibody (Cat#61619, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Flow cytometric analysis of CAPG expression in C2C12 cells using anti-CAPG antibody (Cat#61619, 1:2,000). Green, isotype control; red, CAPG.



Immunocytochemical staining of C2C12 cells with anti-CAPG antibody (Cat#61619, 1:1,000). Nuclei were stained blue with DAPI; CAPG was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.