

Product Name: KD-Validated CAPG Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01379**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 38.5kDa

Antigen Information

Gene Name	CAPG
Alternative Names	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
Gene ID	822.0
SwissProt ID	P40121
Immunogen	A synthesized peptide derived from human CAPG

Background

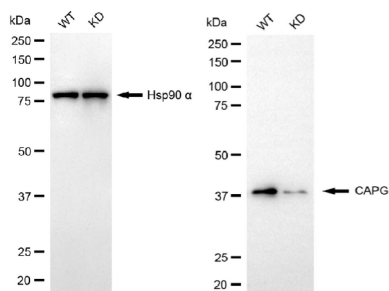
This gene encodes a member of the gelsolin/villin family of actin-regulatory proteins. The encoded protein reversibly blocks

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 for this gene. [provided by RefSeq, Jan 2012]

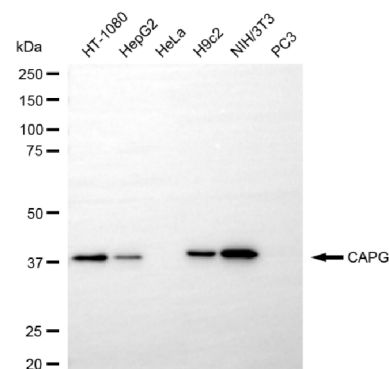
Research Area

Immunology, Signal Transduction

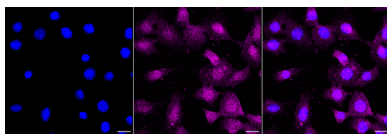
Image Data



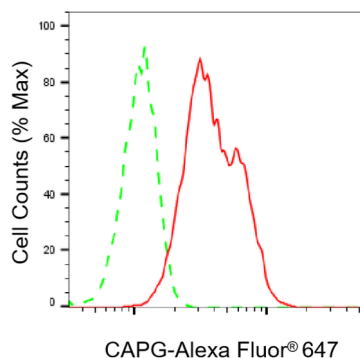
Western blotting analysis using CAPG antibody (KVA01379). CAPG expression in wild-type (WT) and CAPG knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CAPG antibody (KVA01379, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CAPG antibody (KVA01379). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CAPG antibody (KVA01379, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with CAPG antibody (KVA01379, 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.



Flow cytometric analysis of CAPG expression in C2C12 cells using CAPG antibody (KVA01379, 1:2,000). Green, isotype control; red, CAPG.