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ACTG1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6532c

Product Information

Application	WB, FC, IF, E
Primary Accession	P63261
Other Accession	P60010, P68136, P68135, P68137, P68134, P68133, P68139, P68138, P63269, P63268, P63267, P63270, Q5E9B5, A2BDB0, P63259, P63260, Q5ZMQ2, P63258, P04751, P68035, P68033, P68032, P68034, Q3ZC07, O93400, P60711, P29751, Q6QAQ1, P60710, Q4R561, P60709, P48975
Reactivity	Human
Predicted	C.Elegans, Drosophila, Xenopus, Chicken, Bovine, Mouse, Rabbit, Rat, Zebrafish, Hamster, Monkey, Pig, Yeast
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19691
Calculated MW	41793
Antigen Region	188-215

Additional Information

Gene ID	71
Other Names	Actin, cytoplasmic 2, Gamma-actin, Actin, cytoplasmic 2, N-terminally processed, ACTG1, ACTG
Target/Specificity	This ACTG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-215 amino acids from the Central region of human ACTG1.
Dilution	WB~~1:1000 FC~~1:10~50 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ACTG1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ACTG1
Synonyms	ACTG
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. May play a role in the repair of noise-induced stereocilia gaps thereby maintains hearing sensitivity following loud noise damage (By similarity).
Cellular Location	Cytoplasm, cytoskeleton

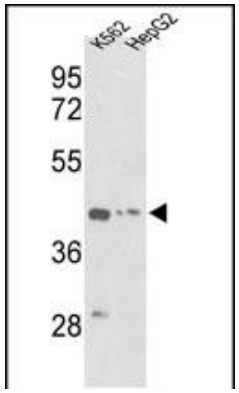
Background

Actins are highly conserved proteins that are involved in various types of cell motility, and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, is a cytoplasmic actin found in nonmuscle cells.

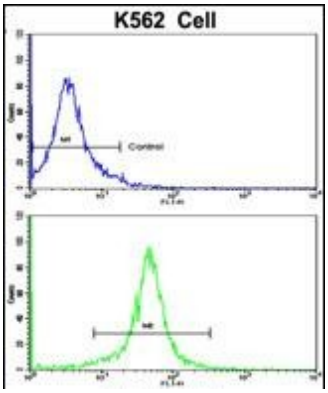
References

de Heer,A.M., Ann. Otol. Rhinol. Laryngol. 118 (5), 382-390 (2009)
Mouilleron,S., EMBO J. 27 (23), 3198-3208 (2008)
Liu,P., J Genet Genomics 35 (9), 553-558 (2008)

Images

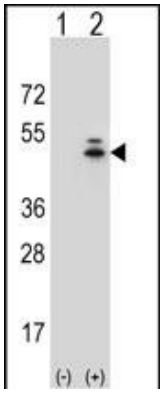


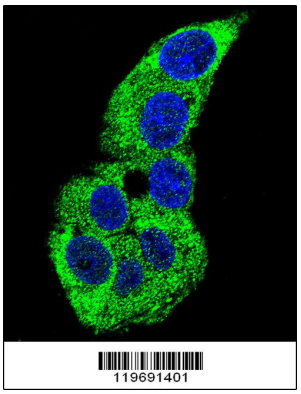
Western blot analysis of ACTG1 Antibody (Center) (Cat.# AP6532c) in K562, HepG2 cell line lysates (35ug/lane). ACTG1 (arrow) was detected using the purified Pab.



Flow cytometric analysis of K562 cells using ACTG1 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western blot analysis of ACTG1 (arrow) using rabbit polyclonal ACTG1 Antibody (Center) (Cat. #AP6532c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ACTG1 gene.





Confocal immunofluorescent analysis of ACTG1 Antibody (Center)(Cat#AP6532c) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).