10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACTG1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5546

Specification

ACTG1 Antibody (Center) - Product Information

Application	**WB, IF, FC,E**
Primary Accession	P63261
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=42 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

ACTG1 Antibody (Center) - Additional Information

Gene ID 71

Antigen Region
188-215

Other Names
Actin, cytoplasmic 2, Gamma-actin, Actin, cytoplasmic 2, N-terminally processed, ACTG1, ACTG

Dilution
WB~~1:1000
IF~~1:10~50
FC~~1:10~50

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.

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.

ACTG1 Antibody (Center) - 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).

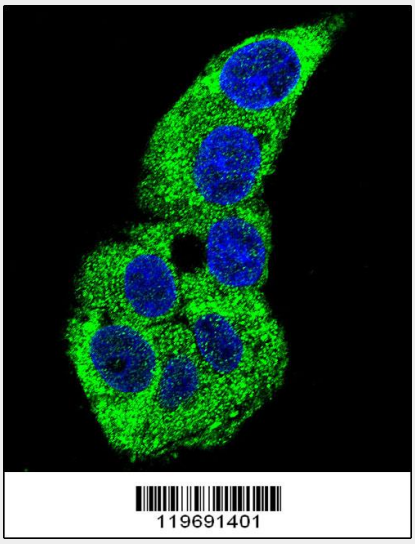
Cellular Location
Cytoplasm, cytoskeleton

ACTG1 Antibody (Center) - 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

ACTG1 Antibody (Center) - Images



Confocal immunofluorescent analysis of ACTG1 Antibody (Center)(Cat#AW5546) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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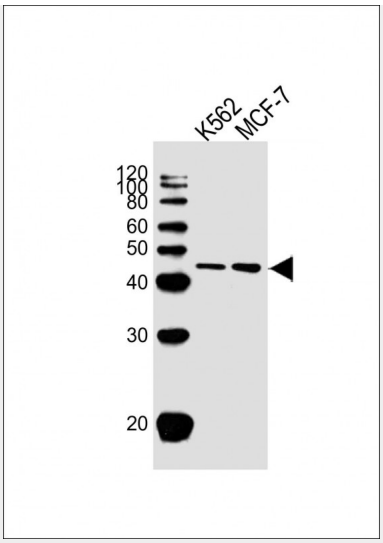
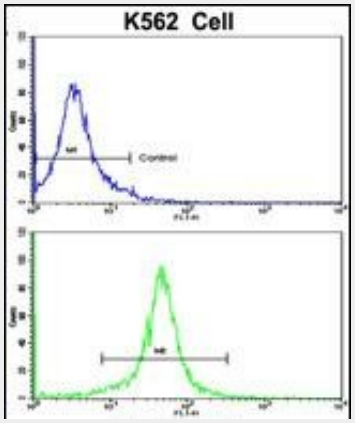


All lanes : Anti-ACTG1 Antibody (Center) at 1:1000 dilution Lane 1: K562 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.

ACTG1 Antibody (Center) - 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.

ACTG1 Antibody (Center) - 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)