

ACTA1/Alpha-actin Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14779b

Specification

ACTA1/Alpha-actin Antibody (C-term) - Product Information

Application	IF, WB, IHC-P, FC,E
Primary Accession	P68133
Other Accession	P68136 , P68135 , P68137 , P68134 , P68139 , P68138 , P04751 , P68035 , P68033 , P68032 , P68034 , Q3ZC07 , P62738 , P62740 , P62737 , P62736 , P08023 , P62739 , P04752 , P10995 , NP_001091.1
Reactivity Predicted	Human Xenopus, Bovine, Chicken, Mouse, Rabbit, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	346-375

ACTA1/Alpha-actin Antibody (C-term) - Additional Information

Gene ID 58

Other Names

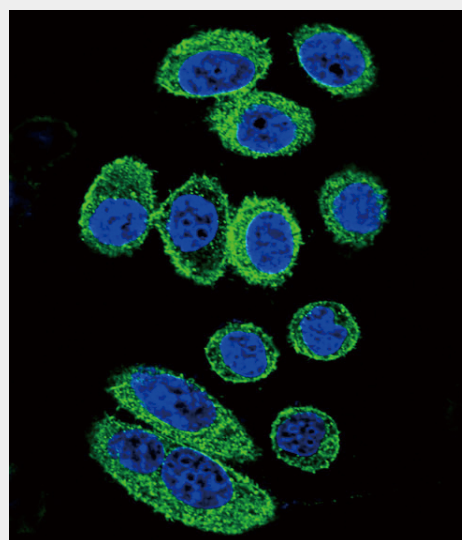
Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA

Target/Specificity

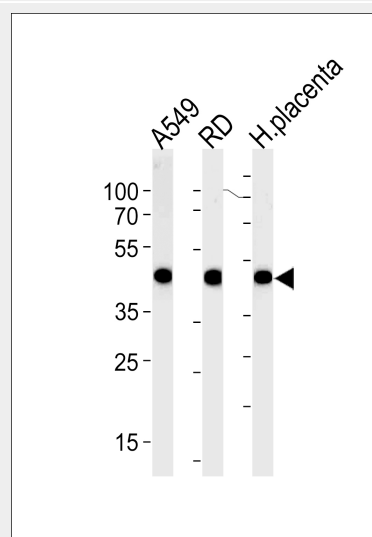
This ACTA1/Alpha-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from the C-terminal region of human ACTA1/Alpha-actin.

Dilution

IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50



Confocal immunofluorescent analysis of ACTA1/α-actin Antibody (C-term)(Cat#AP14779b) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



ACTA1/α-actin Antibody (C-term) (Cat.# AP14779b) western blot analysis in A549, RD cell line and human placenta lysates (35ug/lane). This demonstrates the ACTA1/α-actin antibody detected the

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

ACTA1/Alpha-actin Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACTA1/Alpha-actin Antibody (C-term) - Protein Information

Name ACTA1

Synonyms ACTA

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Cellular Location

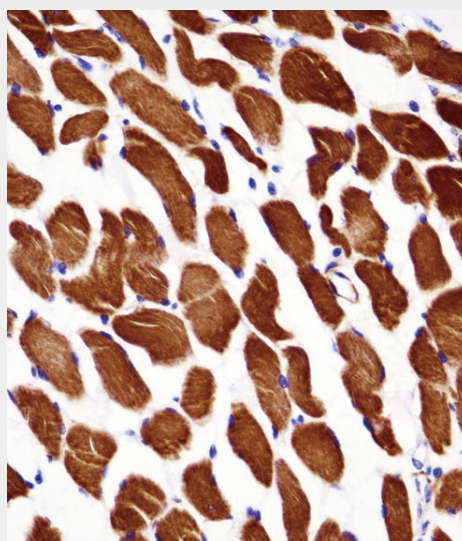
Cytoplasm, cytoskeleton.

ACTA1/Alpha-actin Antibody (C-term) - Protocols

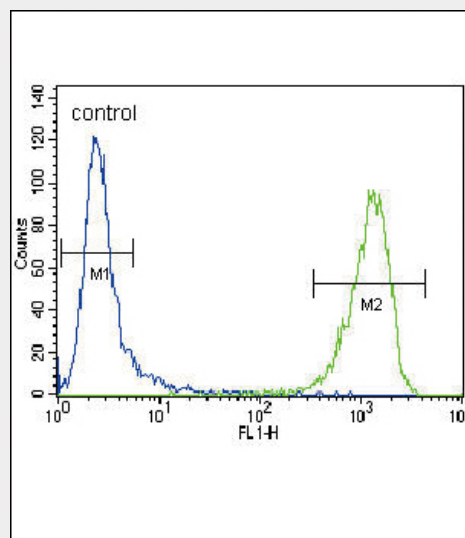
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACTA1/α-actin protein (arrow).



ACTA1/α-actin Antibody (C-term) (AP14779b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ACTA1/α-actin Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ACTA1/α-actin Antibody (C-term) (Cat. #AP14779b) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ACTA1/Alpha-actin Antibody (C-term) -

Background

The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

ACTA1/Alpha-actin Antibody (C-term) - References

Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010) :
Haigh, S.E., et al. Neuromuscul. Disord. 20(6):363-374(2010)
Yu, G., et al. J Clin Neurosci 17(6):766-769(2010)
Yu, C.H., et al. PLoS ONE 5 (7), E11878 (2010) :
Licastro, F., et al. Curr. Pharm. Des. 16(7):783-788(2010)

ACTA1/Alpha-actin Antibody (C-term) - Citations

- [Directed Differentiation of Zebrafish Pluripotent Embryonic Cells to Functional Cardiomyocytes.](#)
- [Exposure to concentrated ambient particulate matter induces reversible increase of heart weight in spontaneously hypertensive rats.](#)