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ACTG2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13537b

Product Information

Application	WB, IHC-P, E
Primary Accession	P63267
Other Accession	P63269, P63268, P63270, Q5E9B5, NP_001606.1
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33618
Calculated MW	41877
Antigen Region	343-371

Additional Information

Gene ID	72
Other Names	Actin, gamma-enteric smooth muscle, Alpha-actin-3, Gamma-2-actin, Smooth muscle gamma-actin, ACTG2, ACTA3, ACTL3, ACTSG
Target/Specificity	This ACTG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 343-371 amino acids from the C-terminal region of human ACTG2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	ACTG2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ACTG2
Synonyms	ACTA3, ACTL3, ACTSG

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.
Tissue Location	In the intestine, abundantly expressed in smooth muscle cells of muscularis mucosa and muscularis propria. Also detected in intestinal vascular smooth muscle cells

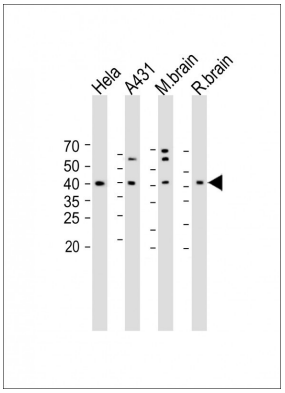
Background

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 2, encoded by this gene, is a smooth muscle actin found in enteric tissues.

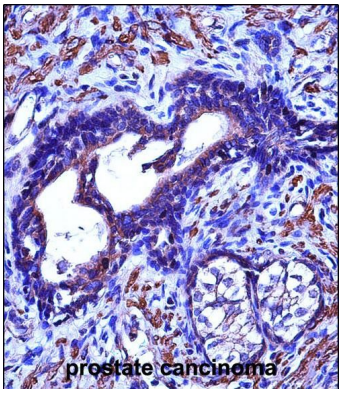
References

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Goldberg, M.T., et al. J. Invest. Dermatol. 127(11):2645-2655(2007)
Yonemoto, S., et al. Clin. Exp. Nephrol. 10(3):186-192(2006)
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Images



All lanes : Anti-ACTG2 Antibody (C-term)at 1:2000 dilution Lane 1:Hela whole cel lysate Lane 2: A431 whole cel lysate Lane 3: Mouse brain lysate Lane 4:Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 42kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ACTG2 Antibody (C-term) (Cat. #AP13537b)immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate cancinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ACTG2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.