




Product datasheet

Anti-gamma Actin antibody [2A3] ab123034

★★★★★ [4 Abreviews](#) [16 References](#) [4 Images](#)

Overview

Product name	Anti-gamma Actin antibody [2A3]
Description	Mouse monoclonal [2A3] to gamma Actin
Host species	Mouse
Specificity	<p>This antibody does not cross react with other actin isoforms. The epitope recognized by ab123034 is highly conserved and the antibody is therefore expected to react with many other species.</p> <p>This antibody is highly specific for gamma-cytoplasmic actin (γ-actin 1; encoded by ACTG1). It does not cross-react with the gamma-actin isoform expressed in the enteric smooth muscle tissues (γ-actin 2; encoded by ACTG2).</p>
Tested applications	Suitable for: ELISA, IHC-Fr, WB, Flow Cyt, IHC-P, IHC-P, ICC/IF
Species reactivity	<p>Reacts with: Mouse, Rat, Rabbit, Chicken, Human, Pig, Zebrafish</p> <p>Predicted to work with: a wide range of other species </p>
Immunogen	<p>Synthetic peptide (Ac- EEEIAALVI -COOH) with an acetylated N-terminus and conjugated to KLH by a Cysteine residue linker, corresponding to N terminal amino acids 2-10 of Human gamma Actin</p> <p> Run BLAST with  Run BLAST with</p>
Positive control	ICC/IF: Human dermal fibroblast cells. IHC-P: Human small intestine and heart tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide

	Constituent: 99% PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	2A3
Myeloma	NS0
Isotype	IgG2b

Applications

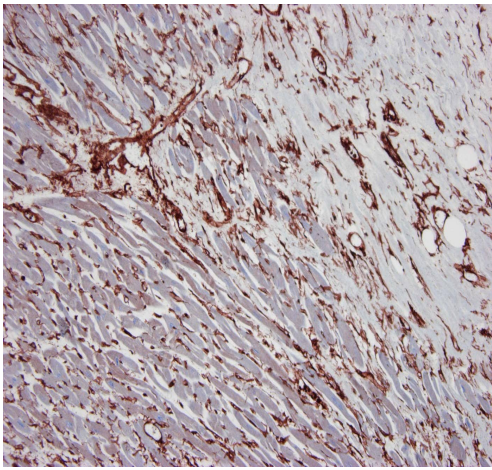
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab123034 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB	★★★★★ (2)	Use at an assay dependent concentration. Predicted molecular weight: 42 kDa.
Flow Cyt		Use at an assay dependent concentration. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (2)	1/100 - 1/500.
IHC-P		Use at an assay dependent concentration.
ICC/IF		1/500.

Target

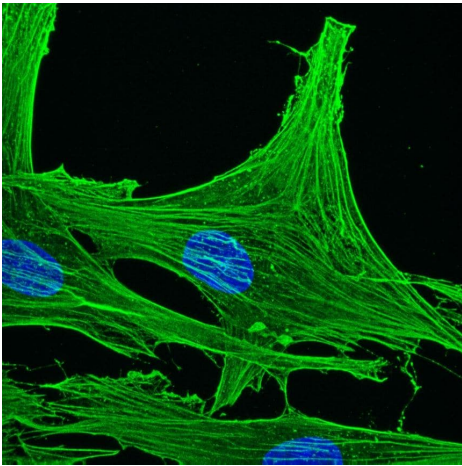
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Involvement in disease	Defects in ACTG1 are the cause of deafness autosomal dominant type 20 (DFNA20) [MIM:604717]; also called autosomal dominant deafness type 26 (DFNA26). DFNA20 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
Sequence similarities	Belongs to the actin family.
Post-translational modifications	The methylhistidine determined by Bienvenut et al is assumed to be the tele-methylhistidine isomer by similarity to the mouse ortholog.
Cellular localization	Cytoplasm > cytoskeleton.

Images



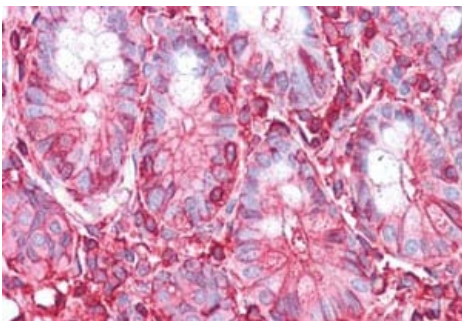
Immunohistochemical analysis of paraffin embedded human heart tissue immunostained for gamma cytoplasmic actin using ab123034 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Actin antibody [2A3] (ab123034)



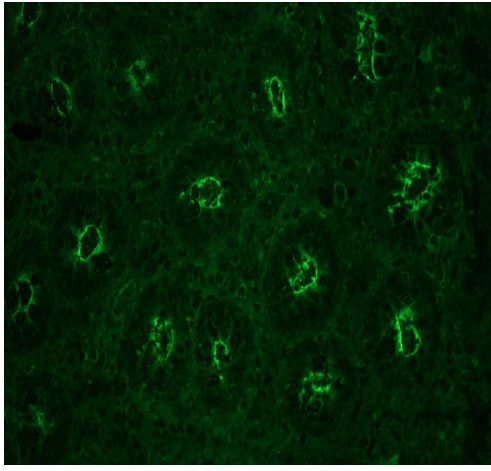
Human dermal fibroblasts stained for gamma Actin (green) using ab123034 at 1/500 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-gamma Actin antibody [2A3] (ab123034)



Immunohistochemical analysis of paraffin embedded Human small intestine tissue labelled with Anti-gamma Actin antibody [2A3] at 5 µg/ml

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Actin antibody [2A3] (ab123034)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Actin antibody [2A3] (ab123034)

ab123034 (1:1000 dilution) staining gamma Actin in the epithelial villi and smooth muscle cells in swine colon.

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