

Product datasheet

FITC Anti-beta Actin antibody [AC-15] ab6277

★★★★★ [2 Abreviews](#) [21 References](#) [3 Images](#)

Overview

Product name	FITC Anti-beta Actin antibody [AC-15]
Description	FITC Mouse monoclonal [AC-15] to beta Actin
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Rat, Chicken
Immunogen	Synthetic peptide: DDDIAALVIDNGSGL conjugated to KLH, corresponding to amino acids 1-14 of Xenopus laevis Actin (beta). Run BLAST with Run BLAST with
Epitope	The N-terminal of the beta isoform of actin
Positive control	Cultured human or chicken fibroblasts. Molecular weight of beta actin is 42Kd.
General notes	Immunofluorescence staining of chicken gizzard ultra-thin sections labels the dense bodies, longitudinal channels and membrane associated dense-plaque.

Useful for direct immunofluorescence labelling of the cytoskeleton in cultured cells

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.

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide

	Constituents: 1% BSA, PBS
Purity	IgG fraction
Purification notes	Purified Immunoglobulin
Primary antibody notes	Useful for direct immunofluorescence labelling of the cytoskeleton in cultured cells
Clonality	Monoclonal
Clone number	AC-15
Isotype	IgG1

Applications

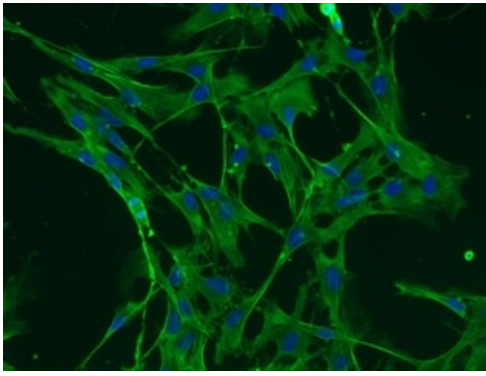
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6277 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

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 ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.
Sequence similarities	Belongs to the actin family.
Post-translational modifications	ISGylated.
Cellular localization	Cytoplasm > cytoskeleton. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images



Immunocytochemistry/ Immunofluorescence - FITC
Anti-beta Actin antibody [AC-15] (ab6277)

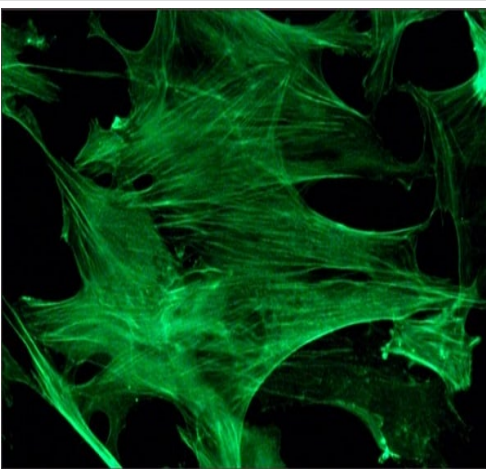
ab6277 at 1/100 dilution staining beta Actin in rat brain endothelial cells by Immunofluorescence.

30 min blocking with TBS-T / 5% BSA

1 hr incubation with ab6277 (TBS-T / 5% BSA)

1 minute nuclear counterstaining with DAPI

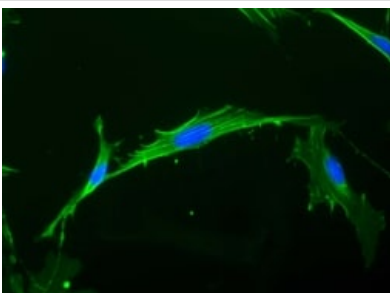
Magnification x20



Immunocytochemistry/ Immunofluorescence - FITC
Anti-beta Actin antibody [AC-15] (ab6277)

Immunocytochemistry/ Immunofluorescence analysis of chicken fibroblast cells labeling beta Actin with ab6277 at 1/300 dilution.

The cells were fixed and permeabilized with cold methanol followed by cold acetone. Fixed cells were stained with 1/300 Anti-beta Actin antibody [AC-15] (FITC) (ab6277).



Immunocytochemistry/ Immunofluorescence - FITC
Anti-beta Actin antibody [AC-15] (ab6277)

ab6277 at 1/100 dilution staining beta Actin in rat brain endothelial cells by Immunofluorescence.

30 min blocking with TBS-T / 5% BSA

1 hr incubation with ab6277 (TBS-T / 5% BSA)

1 minute nuclear counterstaining with DAPI

Magnification x40 no deconvolution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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