

Product datasheet

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

★★★★★ 2 Abreviews 16 References 3 Images

Overview

Product name	Anti-beta Actin antibody [AC-15] (FITC)
Description	Mouse monoclonal [AC-15] to beta Actin (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: ICC/IF, ICC, IHC-Fr, IHC-FoFr
Species reactivity	Reacts with: Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Cow, Cat, Dog, Human, Pig, Drosophila melanogaster, Fish
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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 1% BSA
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

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	★★★★☆	Use at an assay dependent dilution.
ICC		Use at an assay dependent dilution.
IHC-Fr		Use at an assay dependent concentration. PubMed: 21562077
IHC-FoFr		Use at an assay dependent dilution. PubMed: 21445349

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.

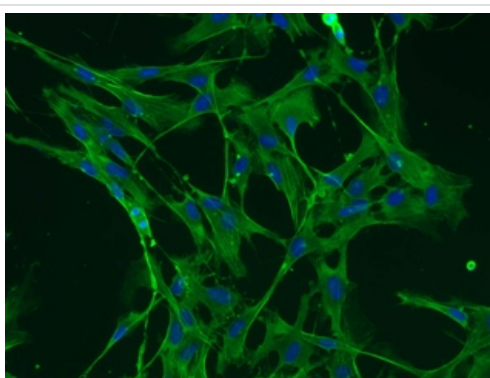
Post-translational modifications

ISGylated.

Cellular localization

Cytoplasm > cytoskeleton. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images



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)

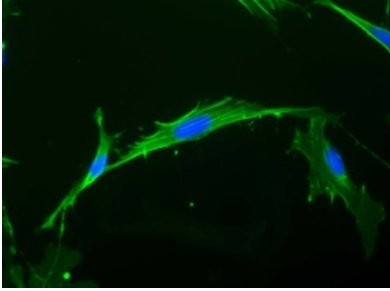
1 minute nuclear counterstaining with DAPI

Magnification x20

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

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors