

Product datasheet

Anti-beta Actin antibody [AC-15] (HRP) ab49900

★★★★★ 10 Abreviews 141 References 3 Images

Overview

Product name	Anti-beta Actin antibody [AC-15] (HRP)
Description	Mouse monoclonal [AC-15] to beta Actin (HRP)
Host species	Mouse
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	<p>Reacts with: Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Hamster, Cow, Cat, Dog, Human, Pig, Carp, Monkey</p> <p>Predicted to work with: a wide range of other species ▲ Does not react with: Drosophila melanogaster, Dictyostelium discoideum</p>
Immunogen	<p>Synthetic peptide corresponding to beta Actin (N terminal) conjugated to keyhole limpet haemocyanin.</p> <p>Sequence:</p> <p>DDIAALVIDNGSGK</p> <p style="text-align: right;">Run BLAST with Run BLAST with</p>
Positive control	NIH 3T3 whole cell lysate (ab7179) can be used as a positive control in WB. Chicken gizzard tissue cryosections. Human foreskin fibroblasts. Chicken fibroblasts. Rat dorsal root ganglion and Rat liver lysates

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituent: 0.0268% PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	AC-15
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab49900** 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
WB	★★★★★	1/25000 - 1/50000. Predicted molecular weight: 42 kDa.

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.

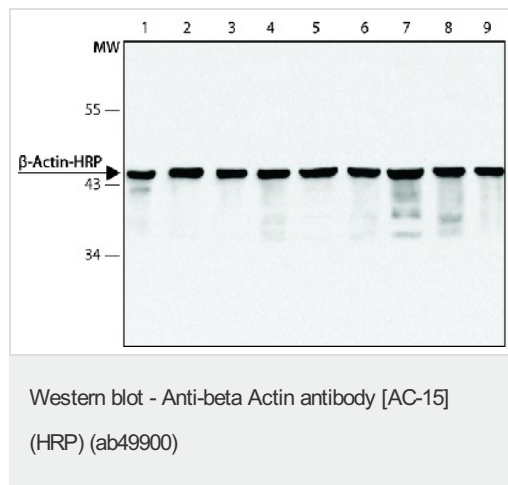
Post-translational modifications

ISGylated.

Cellular localization

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

Images



All lanes : Anti-beta Actin antibody [AC-15] (HRP) (ab49900) at 1/50000 dilution

Lane 1 : A549 Lysate

Lane 2 : HeLa Lysate

Lane 3 : 3T3 Lysate

Lane 4 : NRK Lysate

Lane 5 : MDCK Lysate

Lane 6 : MDBK Lysate

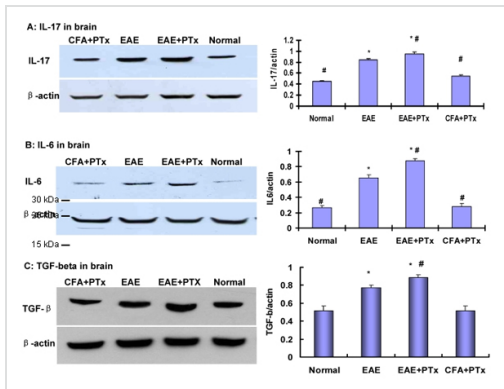
Lane 7 : BHK Lysate

Lane 8 : COS7 Lysate

Lane 9 : CFB Lysate

Developed using the ECL technique.

Predicted band size: 42 kDa

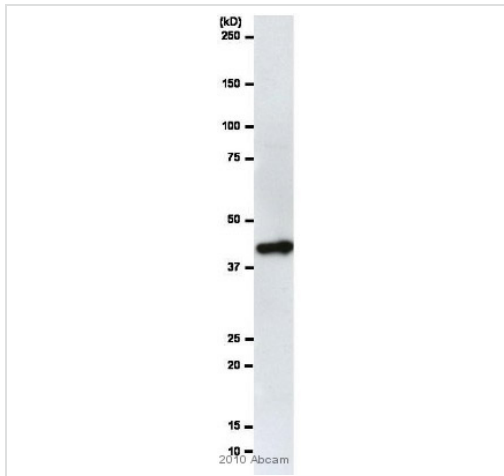


Western blot - Anti-beta Actin antibody [AC-15] (HRP) (ab49900)

Image from PLoS One. 2010 Aug 25;5(8):e12400. Fig 8, doi: 10.1371/journal.pone.0012400.

Proteins were loaded onto a 10% SDS-polyacrylamide gel. After gel electrophoresis, blots were subsequently probed with primary antibodies anti-IL-6 at 1:1000 (ab6672), anti-IL-17 at 1:3000, anti-TGF-β at 1:1000 (ab66043). For detection, horseradish peroxidase-conjugated secondary anti-rabbit antibody was used followed by enhanced chemiluminescence development.

Normalization of results was ensured by running parallel western blots with β-actin antibody at 1:25,000 (ab49900). The optical density was quantified using an image densitometer. The data are presented as a percentage of target protein relative to β-actin. A value of p<0.05 is considered significant.



Western blot - Anti-beta Actin antibody [AC-15] (HRP) (ab49900)

This image is courtesy of an anonymous Abreview

Anti-beta Actin antibody [AC-15] (HRP) (ab49900) at 1/25000 dilution + Whole cell lysate of Human acute monocytic leukemia THP-1. at 10 μg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 42 kDa

Blocking Step: 5% Milk for 1 hour at 22°C.

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