

Product datasheet

HRP Anti-beta Actin antibody [BA3R] ab173838

[7 References](#) [2 Images](#)

Overview

Product name	HRP Anti-beta Actin antibody [BA3R]
Description	HRP Mouse monoclonal [BA3R] to beta Actin
Host species	Mouse
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Dog, Human, African green monkey
Immunogen	Synthetic peptide corresponding to Human beta Actin (N terminal). Database link: P60709
Positive control	WB: HeLa, 293T, U2OS, COS7, NIH 3T3, NRK, A549, MDCK, C2C12, MDA-MB-231 and RSC96 cell lysates. Mouse lung tissue extracts.
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. Store at +4°C.
Clonality	Monoclonal
Clone number	BA3R
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab173838 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		1/500 - 1/2000. Predicted molecular weight: 42 kDa. Can be blocked with <u>Recombinant Human beta Actin protein (His tag) (ab240844)</u> .

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.

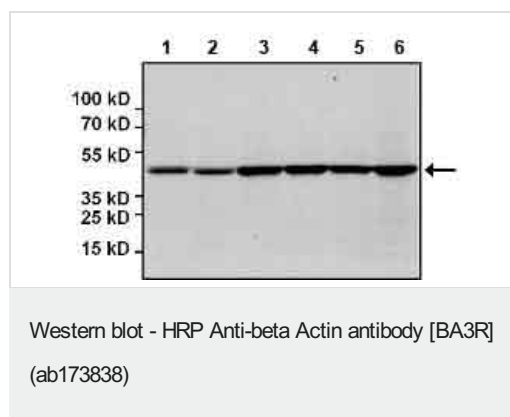
Post-translational modifications

ISGylated.

Cellular localization

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

Images



All lanes : HRP Anti-beta Actin antibody [BA3R] (ab173838) at 1/1000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : 293T cell lysate

Lane 3 : U2OS cell lysate

Lane 4 : COS7 cell lysate

Lane 5 : NIH 3T3 cell lysate

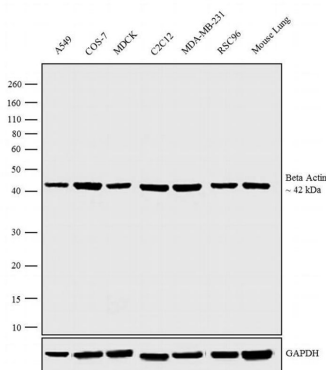
Lane 6 : NRK cell lysate

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

Predicted band size: 42 kDa

4-20% Tris-HCl polyacrylamide gel.



Western blot - HRP Anti-beta Actin antibody [BA3R] (ab173838)

All lanes : HRP Anti-beta Actin antibody [BA3R] (ab173838) at 1 μ g

Lane 1 : A549 (Human alveolar basal epithelial cells)

Lane 2 : COS-7 (African green monkey kidney fibroblast cells)

Lane 3 : MDCK (Madin-Darby Canine Kidney cells)

Lane 4 : C2C12 (Mouse myoblast cells)

Lane 5 : MDA-MB-231 (Human breast cancer cells)

Lane 6 : RSC96

Lane 7 : Mouse lung tissue lysate

Lysates/proteins at 30 μ g per lane.

Developed using the ECL technique.

Predicted band size: 42 kDa

Observed band size: 42 kDa

Blocking buffer: 5% milk.

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

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