

Product datasheet

Anti-beta Actin antibody [mAbcam 8226] - Loading Control (Alexa Fluor® 790) ab184576

[1 References](#) [1 Image](#)

Overview

Product name	Anti-beta Actin antibody [mAbcam 8226] - Loading Control (Alexa Fluor® 790)
Description	Mouse monoclonal [mAbcam 8226] to beta Actin - Loading Control (Alexa Fluor® 790)
Host species	Mouse
Conjugation	Alexa Fluor® 790. Ex: 782nm, Em: 805nm
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Positive control	This antibody gave a positive signal in the following whole cell lysates: HeLa; HEK293; Jurkat; NIH3T3.

General notes

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Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Store In the Dark.

Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol, 1% BSA
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	mAbcam 8226
Myeloma	Sp2/0-Ag14
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab184576** in the following tested applications.

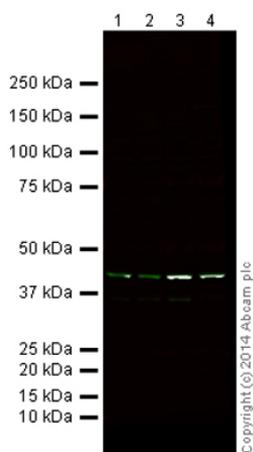
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 42 kDa (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



Western blot - Anti-beta Actin antibody [mAbcam 8226] - Loading Control (Alexa Fluor® 790) (ab184576)

All lanes : Anti-beta Actin antibody [mAbcam 8226] - Loading Control (Alexa Fluor® 790) (ab184576) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 4 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 42 kDa

Observed band size: 42 kDa

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Milk before being incubated with ab184576 overnight at 4°C. Antibody binding was detected after washing to remove excess antibody and imaged using the Licor Odyssey CLx.

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