abcam

Product datasheet

Anti-Alpha Skeletal Muscle Actin antibody [337CT 30.10.1] - Loading Control ab88226

1 Abreviews 2 References 1 Image

Overview

Product name	Anti-Alpha Skeletal Muscle Actin antibody [337CT 30.10.1] - Loading Control
Description	Mouse monoclonal [337CT 30.10.1] to Alpha Skeletal Muscle Actin - Loading Control
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Rabbit, Chicken, Cow, Pig, Orangutan
Immunogen	Synthetic peptide corresponding to Human Alpha Skeletal Muscle Actin aa 1 to the C-terminus.
Positive control	This antibody gave a positive signal in HeLa and TE 671 whole cell lysates, and in the following tissue lysates: Human Heart (data not shown); Mouse Heart; Rat Heart; Human Skeletal Muscle; Mouse Skeletal Muscle; Rat Skeletal Muscle.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified

Clonality	Monoclonal
Clone number	337CT 30.10.1
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab88226 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 5 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa). Block using 3% milk.

Target

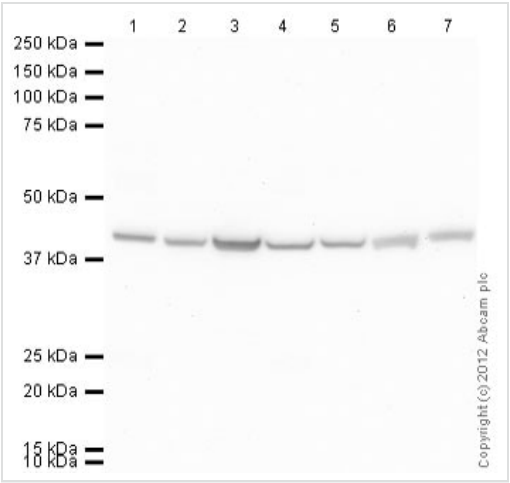
Function Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Involvement in disease Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. The phenotype at histological level is variable. Some patients present areas devoid of oxidative activity containg (cores) within myofibers. Core lesions are unstructured and poorly circumscribed.
Defects in ACTA1 are a cause of myopathy congenital with excess of thin myofilaments (MPCETM) [MIM:161800]. A congenital muscular disorder characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitochondria, and replaced with dense masses of thin filaments. Central cores, rods, ragged red fibers, and necrosis are absent.
Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM). CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However, these findings are not specific and can be found in many different myopathic and neuropathic conditions.

Sequence similarities Belongs to the actin family.

Cellular localization Cytoplasm > cytoskeleton.

Images



Western blot - Anti-Alpha Skeletal Muscle Actin antibody [337CT 30.10.1] - Loading Control (ab88226)

All lanes : Anti-Alpha Skeletal Muscle Actin antibody [337CT 30.10.1] - Loading Control (ab88226) at 5 µg/ml

Lane 1 : Heart (Mouse) Tissue Lysate
Lane 2 : Heart (Rat) Tissue Lysate
Lane 3 : Human skeletal muscle tissue lysate - total protein (**ab29330**)
Lane 4 : Skeletal Muscle (Mouse) Tissue Lysate
Lane 5 : Skeletal Muscle (Rat) Tissue Lysate
Lane 6 : TE 671 (Human Rhabdomyosarcoma) Whole Cell Lysate
Lane 7 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 42 kDa
Observed band size: 42 kDa

Exposure time: 30 seconds

Blocked using 3% milk.

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