abcam

Product datasheet

Anti-Actin antibody [Q20-K] (FITC) ab139548

1 Image

Overview

Product name	Anti-Actin antibody [Q20-K] (FITC)
Description	Rabbit monoclonal [Q20-K] to Actin (FITC)
Host species	Rabbit
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human Actin (C terminal). Database link: P68133
Positive control	Human peripheral blood lymphocytes
General notes	The antibody is conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC and unconjugated antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 1% BSA
Purity	Proprietary Purification
Purification notes	This immunoglobulin is the product of one single B-cell line from the crude anti-peptide polyclonal anti-serum. This antibody is purified using a propriety technique and offers a completely post-translationally modified and properly glycosylated antibody. This offers increased stability.
Clonality	Monoclonal
Clone number	Q20-K
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab139548** 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
Flow Cyt		1/10. Use 1×10^6 per 100 µl.

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.

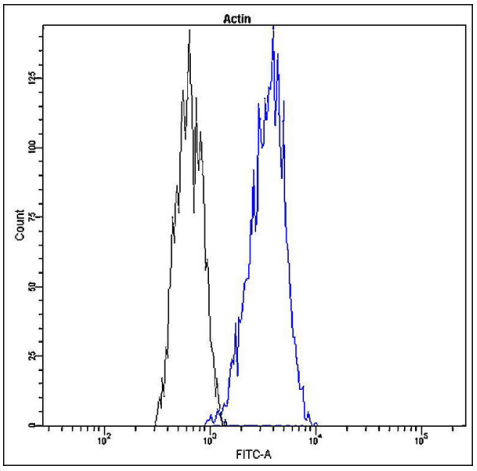
Sequence similarities

Belongs to the actin family.

Cellular localization

Cytoplasm > cytoskeleton.

Images



Flow Cytometry - Anti-Actin antibody [Q20-K] (FITC) (ab139548)

Flow cytometry analysis of Human PBMCs, staining Actin with ab139548.

Cells were fixed, permeabilized and stained with anti-Human Actin FITC (blue, 10 µl per test) or with an isotype control (black).

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