

ACTN1 Antibody

Actinin Alpha 1, Mouse Anti Human
ABM0012

Product Overview

Name ACTN1 Antibody

Description

Actinin Alpha 1, Mouse Anti Human

Synonyms

ACTN1, Actinin, Alpha 1, Alpha-Actinin Cytoskeletal Isoform, F-Actin Cross-Linking Protein, Non-Muscle Alpha-Actinin-1, BDPLT15, Actinin 1 Smooth Muscle, Alpha-Actinin-1.

Introduction

ACTN1 encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

ACTN1 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGSEF MDHYD SQQTNDYMQP EEDWDRDLLL DPAWEKQQRK TFTAWCNSHL
RKAGTQIENI EEDFRDGLKL MLLLEVISGE RLAKPERGKM RVHKISNVNK ALDFIASKGV KLVSIGAEEI

VDGNVKMTLG MIWTIILRFA IQDISVEETS AKEGLLLWCQ RKTAPYKNVN IQNFHISWKD GLGFCAIHR
HRPELIDYGK LRKDDPLTNL NTAFDVAEKY LDIPKMLDAE DIVGTARPDE KAIMTYVSSF YHAF.

Precautions

ACTN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.