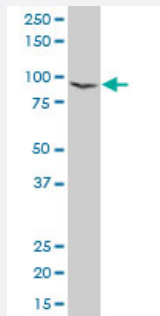


ACTN1 polyclonal antibody (A01)

Catalog # H00000087-A01

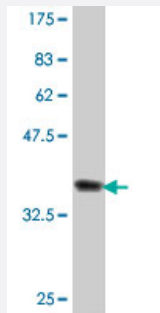
Size 50 uL

Applications



Western Blot (Cell lysate)

ACTN1 polyclonal antibody (A01), Lot # 051128JC01 Western Blot analysis of ACTN1 expression in MES-SA/Dx5 (Cat # L021V1).



Western Blot detection against Immunogen (36.78 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant ACTN1.
Immunogen	ACTN1 (NP_001093, 543 a.a. ~ 639 a.a) partial recombinant protein with GST tag.
Sequence	EIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQEINGKWDHVRQL VPRRDQALTEEHARQQHNERLRKQFGAQA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100); Rat (99)

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (36.78 KDa) .

Storage Buffer

50 % glycerol

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ACTN1 polyclonal antibody (A01), Lot # 051128JC01 Western Blot analysis of ACTN1 expression in MES-SA/Dx5 (Cat # L021V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ACTN1

Entrez GeneID

[87](#)

GeneBank Accession#

[NM_001102](#)

Protein Accession#

[NP_001093](#)

Gene Name

ACTN1

Gene Alias

FLJ40884

Gene Description

actinin, alpha 1

Omim ID

[102575](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

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. This gene encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

F-actin cross-linking protein|actinin 1 smooth muscle|alpha-actinin 1

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)
- [Systemic lupus erythematosus](#)
- [Tight junction](#)

Disease

- [Cleft Lip](#)
- [Cleft Palate](#)