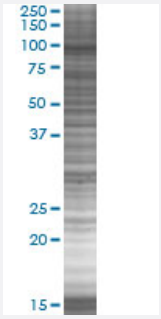
ACTN1 293T Cell Transient Overexpression Lysate(Denatured)

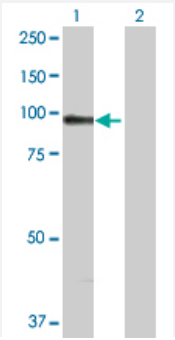
Catalog # H00000087-T01 Size 100 uL

Applications



SDS-PAGE Gel

ACTN1 transfected lysate.



Western Blot

Lane 1: ACTN1 transfected lysate (103.10 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ACTN1 full-length
Host	Human
Theoretical MW (kDa)	103.1
Interspecies Antigen Sequence	Mouse (99); Rat (99)

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Quality Control Testing	Transient overexpression cell lysate was tested with Anti-ACTN1 antibody (H00000087-D01P) by Western Blots. SDS-PAGE Gel ACTN1 transfected lysate. Western Blot Lane 1: ACTN1 transfected lysate (103.10 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — ACTN1

Entrez GeneID	87
GeneBank Accession#	NM_001102.2
Protein Accession#	NP_001093.1
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

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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

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