

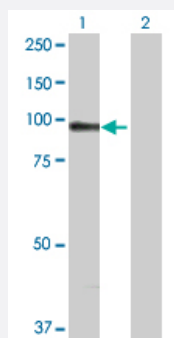
MaxPab®

ACTN1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000087-D01P

Size 100 ug

Applications

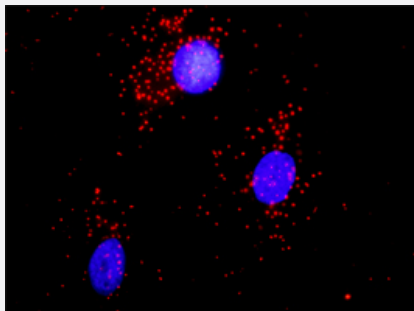


Western Blot (Transfected lysate)

Western Blot analysis of ACTN1 expression in transfected 293T cell line ([H00000087-T01](#)) by ACTN1 MaxPab polyclonal antibody.

Lane 1: ACTN1 transfected lysate(103.10 KDa).

Lane 2: Non-transfected lysate.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between ACTN1 and CAMK2A. HeLa cells were stained with anti-ACTN1 rabbit purified polyclonal 1:1200 and anti-CAMK2A mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human ACTN1 protein.

Immunogen

ACTN1 (NP_001093.1, 1 a.a. ~ 892 a.a) full-length human protein.

Sequence

MDHYDSQQTNDYMQPEEDWDRDLLLDPAAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGL
 KLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEENVGNVGMTLGMWITIL
 RFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRRPELIDYGKLRKD
 DPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVL
 AVNQENEQLMEDYEKLASDLLEWIRRTIPWLENRPENTMHAMQQKLEDFRDYRRLHKPPKVQE
 KCQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNAWGCLEQVEKGYEEWLLNEIRRLERLDHL
 AEKFRQKASIHEAWTDGKEAMLRQKDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQEL
 NELDYDPSVSNARCQKICDQWDNLGALTQKRREALERTEKLETTIDQLYLEYAKRAAPFNNWME
 GAMEDLQDTFVHTIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTI
 TPQEINGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFQAQANVIGPWQTKMEEIGRISIEMH
 GTLEDQLSHLRQYEKSVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINE
 VENQILTRDAKGISQEQMNEFRASFNFHFRDRHSGTLGPPEEFKACLISLGYDIGNDPQGEAEFARIM
 SIVDPNRLGVVTFQAFIDFMSRETADTDADQVMASFKILAGDKNYTMDLRELPDQAEYCIAR
 MAPYTGPDSPVPGALDYMSFSTALYGESDL

Host

Rabbit

Reactivity

Human

Interspecies Antigen Sequence

Mouse (99); Rat (99)

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

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[Protocol Download](#)

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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

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](#)