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# Datasheet for ABIN2787669 anti-ACTN1 antibody (N-Term)

3 Images



### Overview

Quantity:	100 μL
Target:	ACTN1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio), Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACTN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACTN1
Sequence:	DHYDSQQTND YMQPEEDWDR DLLLDPAWEK QQRKTFTAWC NSHLRKAGTQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 75%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against ACTN1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	ACTN1

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Alternative Name:	ACTN1 (ACTN1 Products)
Background:	Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscl
	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. 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. Ir
	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. Publication Note: This RefSeq record include
	a subset of the publications that are available for this gene. Please see the Entrez Gene record
	to access additional publications.
	Alias Symbols: FLJ40884
	Protein Interaction Partner: SPERT, KCTD6, MICALL2, MYOZ2, EPM2AIP1, OAS1, ACTN3,
	ACTN1, SUMO2, SUMO3, HSF5, UBC, MDM2, EZH2, BMI1, ACTN4, CDAN1, DCAF8, SF3A3,
	STAM2, SRP19, UBD, IGSF8, ICAM1, CD81, ERBB2IP, SVIL, PDHX, RPS27, PSMA1, KPNA2,
	HCVgp1, PIAS4, GIT2, NUMBL, HSP90AB1, HSP90
	Protein Size: 892
Molecular Weight:	103 kDa
Gene ID:	87
ICBI Accession:	NM_001102, NP_001093
JniProt:	P12814
Pathways:	Cell-Cell Junction Organization

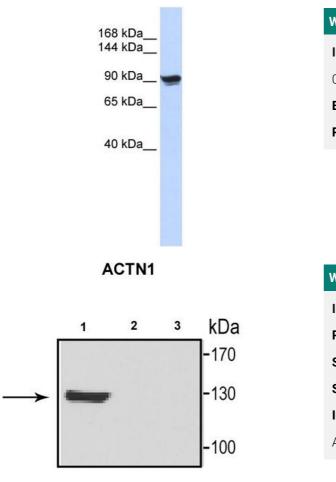
## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 892 AA
Restrictions:	For Research Use only

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Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



#### Western Blotting

Image 1. WB Suggested Anti-ACTN1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 293T cell lysate

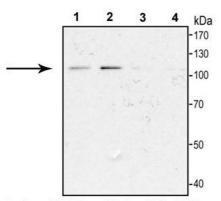
### Western Blotting

Image 2. Sample Type: 1.-4. rACTN1-GFP + HEK293 (50ug) Primary Dilution: 1:1000-1:2000 Secondary Antibody: HRP conjugated goat anti-rabbit Secondary Dilution: 1:20,000 Image Submitted By: Magdalena Kalinowska Albert Einstein College of Medicine

See Immunoblot 2 Data and Customer Fedback tab for more information.

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See Immunoblot 3 Data and Customer Fedback tab for more information.

Western Blotting

**Image 3. Sample Type:** 1.-2.Rat cortical neurons ctr siRNA (30ug)

2. Rat cortical neurons ACTN1 siRNA (30ug)

Primary Dilution: 1:1000-1:2000

Secondary Antibody: HRP conjugated goat anti-rabbit

Secondary Dilution: 1:20,000

Image Submitted By: Magdalena Kalinowska

Albert Einstein College of Medicine

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