



Rabbit Anti-Human ACTN2 Polyclonal Antibody (CABT-L2036)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Actinin Alpha 2 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against ACTN2. It has been selected for its ability to recognize ACTN2 in immunohistochemical staining and western blotting.
Target	ACTN2
Immunogen	Recombinant fragment corresponding to human ACTN2 (Met1~His254)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 μg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

45-1 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-624-4882 Fax: 1-631-938-8221

Email: info@creative-diagnostics.com

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Keywords	Alpha-actinin skeletal muscle isoform 2:F-actin cross-linking protein
	isoforms have been found for this gene. [provided by RefSeq, May 2013]
	expressed in both skeletal and cardiac muscles. Several transcript variants encoding different
	myofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is
	isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the
	is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle
	cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it
	an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the
	cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is
Introduction	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of

GENE INFORMATION

Gene Name	ACTN2 actinin, alpha 2 [Homo sapiens (human)]
Official Symbol	ACTN2
Synonyms	ACTN2; actinin, alpha 2; CMD1AA; alpha-actinin-2; F-actin cross-linking protein; alpha-actinin skeletal muscle;
Entrez Gene ID	88
Protein Refseq	NP_001094
UniProt ID	<u>P35609</u>
Chromosome Location	1q42-q43
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Adherens junction; Amoebiasis; Arrhythmogenic right ventricular cardiomyopathy; Arrhythmogenic right ventricular cardiomyopathy (ARVC); CREB phosphorylation through the activation of CaMKII; CREB phosphorylation through the activation of Ras; Cell-Cell communication;
Function	FATZ binding; LIM domain binding; actin filament binding; calcium ion binding; cytoskeletal protein binding; identical protein binding; integrin binding; ion channel binding; protein binding; protein dimerization activity; structural constituent of muscle; thyroid hormone receptor

Email: info@creative-diagnostics.com

Tel: 1-631-624-4882 Fax: 1-631-938-8221

