



Human ACTN2 peptide (DAG-P1959)

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

PRODUCT INFORMATION

Antigen	Description
Alludell	Describition

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 muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013]

Specificity	Expressed in both skeletal and cardiac muscle.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the alpha-actinin family. Contains 1 actin-binding domain. Contains 2 CH (calponin-homology) domains. Contains 2 EF-hand domains. Contains 4 spectrin repeats.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ACTN2 actinin, alpha 2 [Homo sapiens (human)]
Official Symbol	ACTN2

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Synonyms	ACTN2; actinin, alpha 2; CMD1AA; alpha-actinin-2; F-actin cross-linking protein; alpha-actinin skeletal muscle;
Entrez Gene ID	88
mRNA Refseq	NM 001103.3
Protein Refseq	<u>NP_001094.1</u>
UniProt ID	B2RCS5
Chromosome Location	1q42-q43
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved bios
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