

DNAxPAb

Hard-to-Find
Antibody

ACTN2 DNAxPab

Catalog # H00000088-W01P

Size 200 ug

Specification

Product Description Rabbit polyclonal antibody raised against a full-length human ACTN2 DNA using DNAx™ Immune technology.

Technology [DNAx™ Immune](#)

Immunogen Full-length human DNA

Sequence

MNQIEPGVQYNYVDEDEYMIQEEEWDRDLLLPAWEKQQRKTFTAWCNSHLRKAGTQIENIEED
FRNGLKMLLLEVISGERLPKPDRGKMRFHKIANVKNALDYASKGVKLVSIGAEEMDGNVKMTLG
MWITILRFAIQDISVEETSAKEGLLLWCQRKTAPYRNVNIQNFHTSWKDGLGLCALIHRHRPDLIDYS
KLNKDDPIGNINLAMEIAEKHLDIPKMLDAEDVNTPKPDERAIMTYVSCFYHAFAGAEQAETAANRI
CKVLAVNQENERLMEEYERLASELLEWIRRTIPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPP
KVQEKQCQLEINFNTLQTKLRISNRPAFMPSEGKMVSDIAGAWQRLEQAEKGYYEELLNEIRRLERL
EHLAEKFRQKASTHETWAYGKEQILLQKDYESASLTVRALLRKHEAFESDLAAHQDRVEQIAAIA
QELNELDYHDAVNVNDRQCQICDQWDRLGTLTQKRREALERMEKLETTIDQLHLEFAKRAAPFNN
WMEGAMEDLQDMFVHSIEEQSLITAHEQFKATLPEADGERQSIMAIQNEVEKVIQSYNIRISSNP
YSTVTMDELRTKWDKVKQLVPIRDQSLQEELARQHANERLRRQFAAQANAIGPWIQNKMEIARS
SIQTGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQLIQEALVFDNKHTNYTMEHIRVGWELLTTIA
RTINEVETQILTRDAKGITQEQMNEFRASFNFHDDRKNGLMDHEDFRACLISMGYDLGEAEFARIM
TLVDPNGQGTVTFQSFIDFMTRETADTDTAEQVIASFRILASDKPYLAEEELRRELPPDQAQYCIKR
MPAYSGPGSVPGALDYAAFSSALYGESDL

Host Rabbit

Reactivity Human

Interspecies Antigen Sequence Mouse (99); Rat (99)

Purification Protein A

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.

Applications

- Western Blot (Transfected lysate)
[Protocol Download](#)
- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — ACTN2

Entrez GeneID [88](#)

GeneBank Accession# [NM_001103.1](#)

Protein Accession# [NP_001094.1](#)

Gene Name ACTN2

Gene Alias CMD1AA

Gene Description actinin, alpha 2

Omim ID [102573](#)

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 muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. [provided by RefSeq]

Other Designations F-actin cross-linking protein|OTTHUMP00000037963|alpha-actinin skeletal muscle

Pathway

- [Adherens junction](#)

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)
- [Systemic lupus erythematosus](#)
- [Tight junction](#)

Disease

- [Cardiomyopathy](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Tobacco Use Disorder](#)