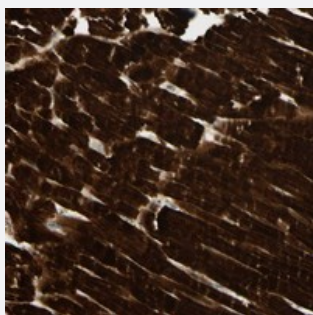


ACTN2 polyclonal antibody

Catalog # PAB20419 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human heart muscle with ACTN2 polyclonal antibody (Cat # PAB20419) shows strong cytoplasmic positivity in myocytes at 1:20-1:50 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant ACTN2.
Immunogen	Recombinant protein corresponding to amino acids of human ACTN2.
Sequence	AHEQFKATLPEADGERQSIMAIQNEVEKVIQSYNIRISSNPYSTVTMDELRTKWDKVKQLVPIRDQSLQEELARQHANERLRQFAAQANAIGPWQNKMEIARSSIQITGALEDQMNQLKQYEHNIINYKNIDKLEGD
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:20-1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — ACTN2

Entrez GeneID[88](#)**Protein Accession#**[P35609](#)**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](#)