



Desmin Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AD80245

Specification

Desmin Antibody - Product info

Application
Primary Accession
Reactivity
Host
Clonality
Isotype

IHC
P17661
Human
Mouse
Monoclonal

Desmin Antibody - Additional info

Gene ID Gene Name **Other Names** Desmin, DES 1674 DES

Dilution

IHC~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions

Desmin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Desmin Antibody - Protein Information

Name DES

Function

Muscle-specific type III intermediate filament essential for proper muscular structure and function. Plays a crucial role in maintaining the structure of sarcomeres, inter-connecting the Z-disks and forming the myofibrils, linking them not only to the sarcolemmal cytoskeleton, but also to the nucleus and mitochondria, thus providing strength for the muscle fiber during activity (PubMed:25358400). In adult striated muscle they form a fibrous network connecting myofibrils to each other and to the plasma membrane from the periphery of the Z-line structures (PubMed:24200904, PubMed:25394388,



Cellular Location

PubMed: 26724190). May act as a sarcomeric microtubule-anchoring protein: specifically associates with detyrosinated tubulin-alpha chains, leading to buckled microtubules and mechanical resistance to contraction. Contributes to the transcriptional regulation of the NKX2-5 gene in cardiac progenitor cells during a short period of cardiomyogenesis and in cardiac side population stem cells in the adult. Plays a role in maintaining an optimal conformation of nebulette (NEB) on heart muscle sarcomeres to bind and recruit cardiac alpha-actin (By similarity). Cytoplasm, myofibril, sarcomere, Z line Cytoplasm. Cell membrane, sarcolemma. **Nucleus**

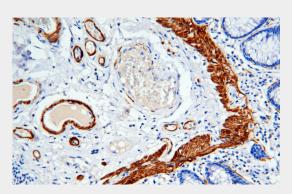
{ECO:0000250|UniProtKB:P31001}.
Note=Localizes in the intercalated disks which occur at the Z line of cardiomyocytes (PubMed:24200904, PubMed:26724190).
Localizes in the nucleus exclusively in differentiating cardiac progenitor cells and premature cardiomyocytes (By similarity) {ECO:0000250|UniProtKB:P31001, ECO:0000269|PubMed:24200904, ECO:0000269|PubMed:26724190}

Desmin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Desmin Antibody - Images



Immunohistochemical analysis of paraffin-embedded colorectal carcinoma; tissue using AD80025





Tel: 858.875.1900 Fax: 858.875.1999

performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems[Abcepta:AR005] was used as the secondary antibody.