

**Desmin**  
Mouse Monoclonal Antibody (Mab)  
Catalog # APA025

## Specification

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### Desmin - Product Information

Application	IHC
Primary Accession	<a href="#">P17661</a>
Host	Mouse
Clonality	Monoclonal
Calculated MW	53536 Da

### Desmin - Additional Information

Gene ID	1674
Gene Name	DES
<b>Other Names</b>	
Desmin, DES	
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Desmin is for research use only and not for use in diagnostic or therapeutic procedures.

### Desmin - 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: <a href="#">25358400</a> ). 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: <a href="#">24200904</a> , PubMed: <a href="#">25394388</a> , PubMed: <a href="#">26724190</a> ). May act as a sarcomeric microtubule-anchoring protein: specifically associates with deetyrosinated

#### Cellular Location

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 nebulin (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 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Desmin - Images