

ARG66873 anti-Desmin antibody [SQab21245]

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Mouse Monoclonal antibody [SQab21245] recognizes Desmin |
| Tested Reactivity | Hu, Rat |
| Tested Application | IHC-P, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | SQab21245 |
| Isotype | IgG |
| Target Name | Desmin |
| Species | Human |
| Immunogen | Derived from Human Leiomyoma. |
| Conjugation | Un-conjugated |
| Alternate Names | LGMD2R; CSM1; Desmin; CSM2 |

Application Instructions

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|-------------------|--|----------------|
| Application table | Application | Dilution |
| | IHC-P | 1:100 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 53 kDa | |

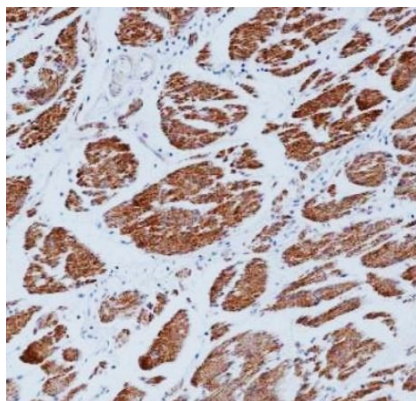
Properties

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|---------------------|---|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 40% Glycerol and 0.05% BSA |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|-----------------------|--|
| Gene Symbol | DES |
| Gene Full Name | desmin |
| Background | This gene encodes a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this gene are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. [provided by RefSeq, Jul 2008] |
| 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, 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 nebulin (NEB) on heart muscle sarcomeres to bind and recruit cardiac alpha-actin (By similarity). [UniProt] |
| Calculated Mw | 54 kDa |
| PTM | ADP-ribosylation prevents ability to form intermediate filaments. [UniProt] |
| Cellular Localization | Cytoplasm, myofibril, sarcomere, Z line. Cytoplasm. Cell membrane, sarcolemma. Nucleus. 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). [UniProt] |

Images



ARG66873 anti-Desmin antibody [SQab21245] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human esophagus tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66873 anti-Desmin antibody [SQab21245] for 30 min at RT.



ARG66873 anti-Desmin antibody [SQab21245] WB image (Customer review)

Western blot: Rat Heart stained with ARG66873 anti-Desmin antibody [SQab21245] at 1:500 dilution.