

Product datasheet

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ARG43208 anti-Desmin antibody [DE-U-10]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [DE-U-10] recognizes Desmin

Tested Reactivity Ms, Rat
Predict Reactivity Hu

Tested Application ICC/IF, IHC-P, WB

Host Mouse

Clonality Monoclonal

Clone DE-U-10

Isotype IgG1

Target Name Desmin

Species Pig

ImmunogenDesmin from pig stomach.

Conjugation Un-conjugated

Alternate Names LGMD2R; CSM1; Desmin; CSM2

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	2 - 4 μg/ml
	WB	2 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 54 kDa	

Properties

Form	Liquid	
Purification	Unpurified	
Buffer	Mouse ascites fluid, 1.2% Sodium acetate, 0.01 mg Sodium azide and 2 mg BSA.	
Preservative	0.01 mg Sodium azide	
Stabilizer	2 mg BSA	
Concentration	0.5 mg/ml	
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 or below. 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

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 nebulette (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]

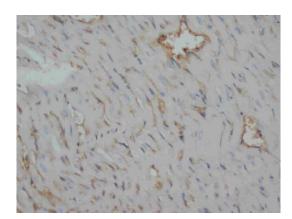
Cellular Localization Cytoplasm, myofibril, sarcomere, Z line. Cytoplasm. Cell membrane, sarcolemma. Nucleus.

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

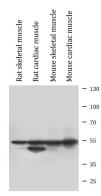
progenitor cells and premature cardiomyocytes (By similarity). [UniProt]

Images



ARG43208 anti-Desmin antibody [DE-U-10] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat cardiac muscle tissue stained with ARG43208 anti-Desmin antibody [DE-U-10].



ARG43208 anti-Desmin antibody [DE-U-10] WB image

Western blot: 50 μg of Rat skeletal muscle, Rat cardiac muscle, Mouse skeletal muscle and Mouse cardiac muscle lysates stained with ARG43208 anti-Desmin antibody [DE-U-10] at 0.5 $\mu g/ml$ dilution.