

Product datasheet

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ARG64787 anti-Desmin antibody

Package: 100 μg Store at: -20°C

Summary

Product Description Goat Polyclonal antibody recognizes Desmin

Tested Reactivity Hu, Ms, Rat, Pig

Predict Reactivity Cow, Dog

Tested Application IHC-P, WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name Desmin
Species Human

Immunogen C-RDGEVVSEATQQQHE

Conjugation Un-conjugated

Alternate Names LGMD2R; CSM1; Desmin; CSM2

Application Instructions

Application table	Application	Dilution
	IHC-P	Assay - dependent
	WB	0.3 - 1 μg/ml
, pp. 100 100 100 100 100 100 100 100 100 10	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purified from goat serum by antigen affinity chromatography.

Buffer Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 0.5% 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.

Bioinformation

Gene Full Name Background desmin

Desmin is 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 Desmin: 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. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Signaling

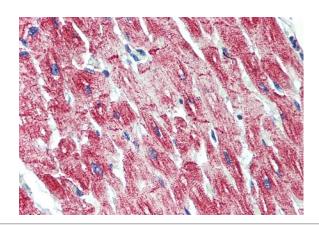
 $Transduction\ antibody;\ Smooth\ Muscle\ Marker\ antibody;\ Cardiomyocyte\ Cell\ Surface\ Marker\ antibody;$

Mural Cell Marker antibody; Microvascular Density Study antibody

Calculated Mw 54 kD

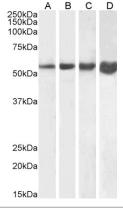
PTM ADP-ribosylation prevents ability to form intermediate filaments.

Images



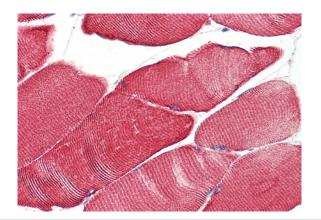
ARG64787 anti-Desmin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64787 anti-Desmin antibody at 5 μ g/ml dilution followed by AP-staining.



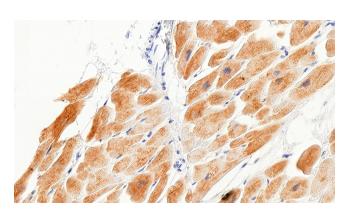
ARG64787 anti-Desmin antibody WB image

Western blot: 35 μ g of Human (A), Mouse (B), Rat (C) and Pig (D) skeletal muscle lysates (in RIPA buffer) stained with ARG64787 anti-Desmin antibody at 1 μ g/ml dilution and incubated at RT for 1 hour.



ARG64787 anti-Desmin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64787 anti-Desmin antibody at 5 $\mu g/ml$ dilution followed by AP-staining.



ARG64787 anti-Desmin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG64787 anti-Desmin antibody at 3.75 $\mu g/ml$ dilution followed by HRP-staining.