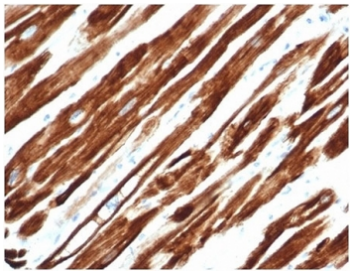
Desmin Antibody / Muscle Cytoskeleton Protein [clone rDES/1711] (V9768)

Catalog No.	Formulation	Size
V9768-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9768-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9768SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

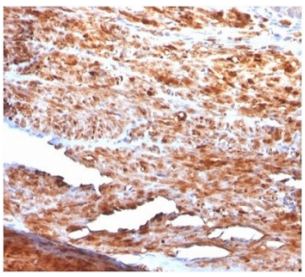
Recombinant MOUSE MONOCLONAL

Bulk quote request

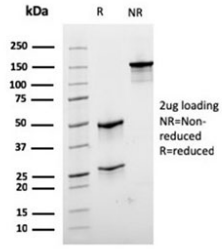
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster, Guinea pig, Rabbit
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rDES/1711
Purity	Protein G affinity chromatography
UniProt	P17661
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT (Human) Western blot: 2-4ug/ml (Human/Mouse/Rat/Hamster/Guinea pig/Rabbit)
Limitations	This Desmin Antibody / Muscle Cytoskeleton Protein is available for research use only.



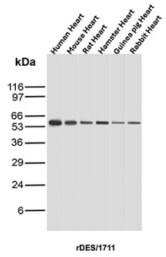
Desmin Antibody Uterus IHC. Immunohistochemistry staining of FFPE human uterus tissue using Desmin antibody (clone rDES/1711) demonstrates strong, diffuse cytoplasmic staining of smooth muscle cells, consistent with the abundant expression of Desmin within uterine smooth muscle tissue. Desmin is a type III intermediate filament protein that forms a major component of the muscle cytoskeleton, providing structural support and helping maintain the organization of contractile elements within muscle cells. The robust staining pattern observed throughout smooth muscle bundles is consistent with the established role of Desmin as a marker of muscle differentiation and contractile tissue identity. Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min.



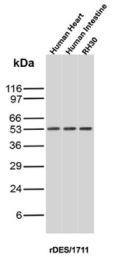
Desmin Antibody Human Uterus Tissue IHC. Immunohistochemistry staining of FFPE human uterus tissue using Desmin antibody (clone rDES/1711) demonstrates strong cytoplasmic staining throughout smooth muscle cell populations, consistent with the abundant expression of Desmin in contractile uterine tissue. Desmin is a type III intermediate filament protein that forms an essential component of the muscle cytoskeleton, helping maintain cellular architecture and mechanical integrity within smooth muscle cells. The widespread immunoreactivity observed within smooth muscle bundles is consistent with the established role of Desmin as a marker of muscle differentiation and smooth muscle tissue identity. Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min.



SDS-PAGE Analysis of Purified, BSA-Free recombinant Desmin Antibody (clone rDES/1711). Confirmation of Integrity and Purity of the Antibody.



Desmin Antibody Multi-Species Heart WB. Western blot analysis of heart tissue lysates from human, mouse, rat, hamster, guinea pig, and rabbit using Desmin Antibody (clone rDES/1711) detects a band at approximately 53 kDa across all species, consistent with the expected molecular weight of Desmin. The conserved banding pattern supports reliable cross-species detection of this muscle-specific intermediate filament protein, aligning with its role as a structural marker of muscle cells and tissue integrity.



Desmin Antibody Human Tissue Panel WB. Western blot analysis of human heart, human intestine, and RH30 cell lysates using Desmin Antibody (clone rDES/1711) detects a band at approximately 53 kDa, consistent with the expected molecular weight of Desmin. The presence of signal in heart and intestine tissues, as well as rhabdomyosarcoma cells, supports detection of this muscle-associated intermediate filament protein, aligning with its role in muscle structure and differentiation.

Description

Desmin Antibody / Muscle Cytoskeleton Protein is designed for the detection and study of Desmin (DES), a type III intermediate filament protein that serves as a principal component of the muscle cytoskeleton. Desmin is expressed predominantly in skeletal, cardiac, and smooth muscle tissues, where it helps maintain cellular architecture and structural integrity. As one of the most widely utilized markers of muscle differentiation and tissue organization, Desmin plays a central role in studies of muscle biology and cytoskeletal regulation.

Desmin forms an extensive intracellular filament network that integrates with other cytoskeletal systems to provide mechanical support and maintain the organization of contractile cells. These intermediate filaments connect cellular structures and contribute to the alignment of contractile elements within muscle fibers. Through these activities, Desmin helps preserve muscle cell architecture and supports the structural framework required for normal tissue function.

Because of its restricted expression within muscle lineages, Desmin is frequently used to identify skeletal muscle, cardiac muscle, and smooth muscle populations in both research and pathology applications. The protein is highly conserved across vertebrate species and serves as a valuable marker for studies of muscle development, tissue remodeling, and

comparative biology. Researchers routinely utilize Desmin expression analysis to characterize myogenic cells and evaluate muscle-associated tissue architecture.

Beyond its value as a muscle marker, Desmin occupies an important position within the broader network of proteins that regulate cellular structure and tissue integrity. Investigations of Desmin have contributed significantly to understanding how intermediate filament systems support muscle organization and maintain contractile tissue stability. As a result, Desmin remains an important target for studies of muscle physiology, cytoskeletal dynamics, cardiovascular biology, and smooth muscle function.

Desmin Antibody is useful for investigating muscle development, myogenic differentiation, cytoskeletal organization, cardiovascular biology, smooth muscle biology, and tissue architecture. Researchers utilize Desmin Antibody reagents to evaluate protein expression patterns and study molecular mechanisms governing muscle structure, cellular integrity, and intermediate filament-dependent regulatory pathways.

This antibody can be compared with our Desmin Antibody (clone DES/2960R) for detection of desmin as a muscle marker with validation supported by gene knockdown.

Application Notes

Optimal dilution of the Desmin Antibody / Muscle Cytoskeleton Protein should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for the recombinant Desmin antibody.

Storage

Store the Desmin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Desmin Antibody, DES Antibody, Muscle Cytoskeleton Protein Antibody, Muscle Structural Protein Antibody, Type III Intermediate Filament Antibody, Myocyte Cytoskeleton Protein Antibody, Contractile Tissue Protein Antibody

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