

Desmin Antibody

Catalog No: #48577



Package Size: #48577-1 50ul #48577-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

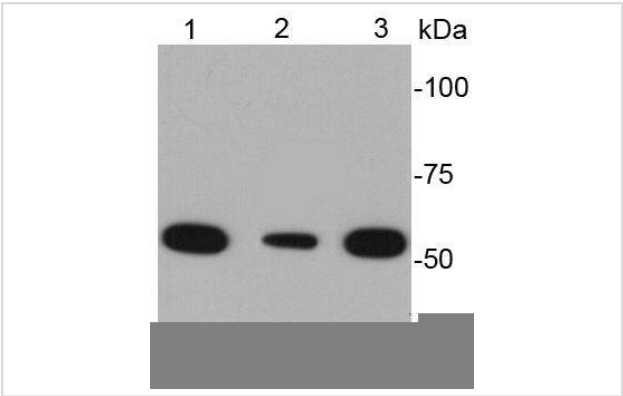
Description

Product Name	Desmin Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC
Species Reactivity	Hu, Ms, zebrafish
Immunogen Description	peptide
Other Names	CMD11 antibody CSM1 antibody CSM2 antibody DES antibody DESM_HUMAN antibody Desmin antibody FLJ12025 antibody FLJ39719 antibody FLJ41013 antibody FLJ41793 antibody Intermediate filament protein antibody OTTHUMP00000064865 antibody
Accession No.	Swiss-Prot#:P17661
Calculated MW	53 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

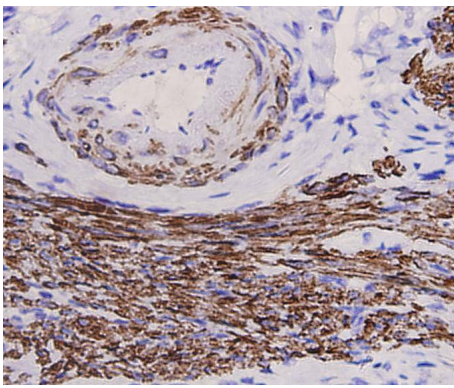
Application Details

WB: 1:1,000-1:2,000 IHC: 1:200ICC: 1:200

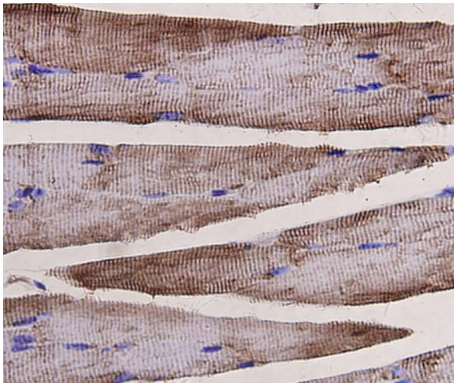
Images



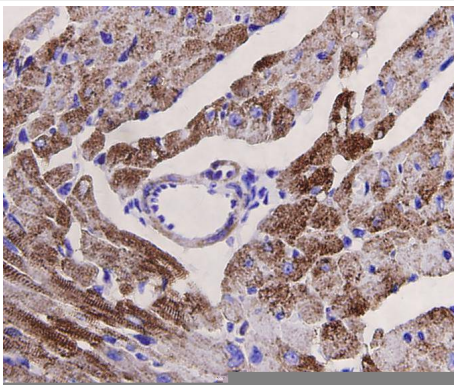
Western blot analysis of Desmin on different cell lysates using anti-Desmin antibody at 1/2000 dilution. Positive control:
Lane 1: Human skeletal muscle tissue Lane 2: Mouse heart tissue Lane 3: Human heart tissue



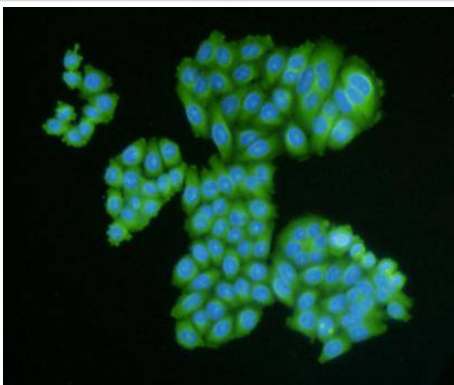
Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Desmin antibody. Counter stained with hematoxylin.



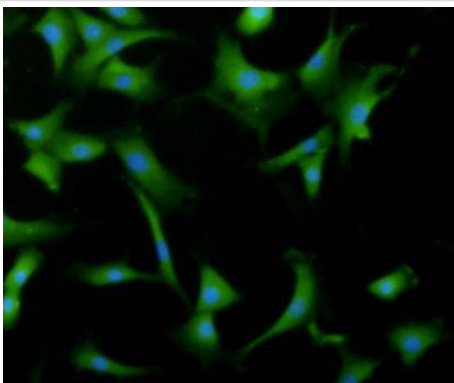
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Desmin antibody. Counter stained with hematoxylin.



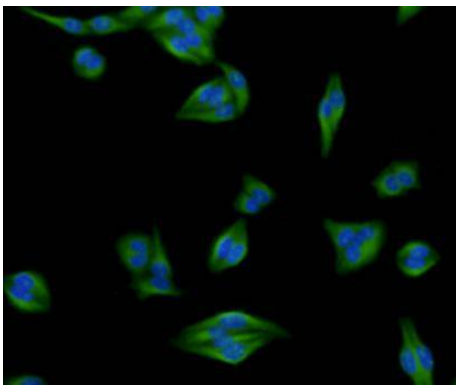
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Desmin antibody. Counter stained with hematoxylin.



ICC staining of Desmin in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining of Desmin in NIH-3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining of Desmin in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Desmin is one of the earliest protein markers for muscle tissue in embryogenesis as it is detected in the somites. Although it is present early in the development of muscle cells, it is only expressed at low levels, and increases as the cell nears terminal differentiation. Desmin is also important in muscle cell architecture and structure since it connects many components of the cytoplasm. Finally, desmin may be important in mitochondria function. Desmin-related myopathy (DRM or Desminopathy) is a subgroup of the myofibrillar myopathy diseases and is the result of a mutation in the gene that codes for desmin which prevents it from forming protein filaments, instead forming aggregates of desmin and other proteins throughout the cell. Recently, mutations were identified in patients suffered by an arrhythmogenic right ventricular cardiomyopathy (ARVC).

References

- 1."De novo desmin-mutation N116S is associated with arrhythmogenic right ventricular cardiomyopathy." Klauke B., Kossmann S., Gaertner A., Brand K., Stork I., Brodehl A., Dieding M., Walhorn V., Anselmetti D., Gerdes D., Bohms B., Schulz U., Zu Knyphausen E., Vorgerd M., Gummert J., Milting H.Hum. Mol. Genet. 19:4595-4607(2010)
- 2."Desmin mutations and arrhythmogenic right ventricular cardiomyopathy." Lorenzon A., Beffagna G., Bauce B., De Bortoli M., Li Mura I.E., Calore M., Dazzo E., Basso C., Nava A., Thiene G., Rampazzo A. Am. J. Cardiol. 111:400-405(2013)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.