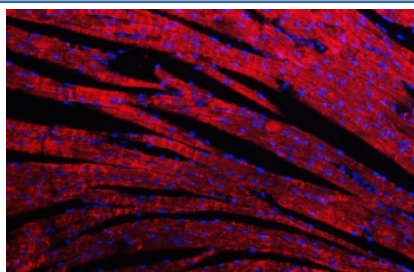


Desmin Antibody (R31530)

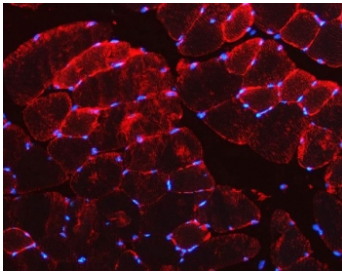
Catalog No.	Formulation	Size
R31530	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

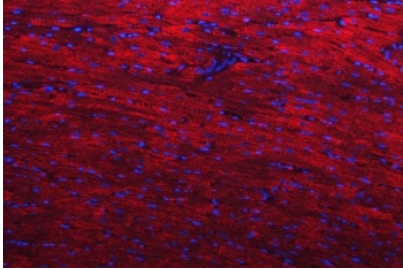
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	1674
Localization	Cytoplasmic, membranous
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunohistochemistry (Frozen) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This Desmin antibody is available for research use only.



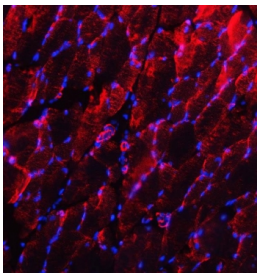
Immunofluorescent staining of FFPE mouse heart tissue with Desmin antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



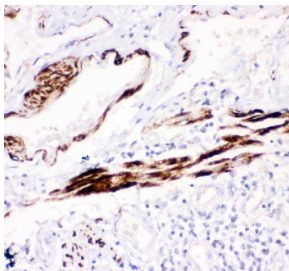
Immunofluorescent staining of FFPE mouse skeletal muscle tissue with Desmin antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



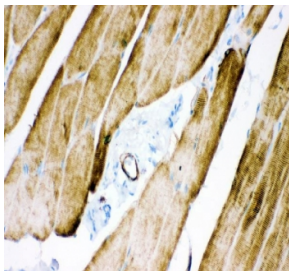
Immunofluorescent staining of FFPE rat heart tissue with Desmin antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



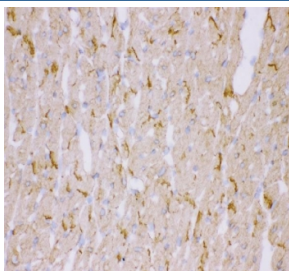
Immunofluorescent staining of FFPE rat skeletal muscle tissue with Desmin antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



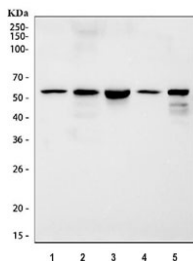
IHC staining of FFPE human lung cancer tissue with Desmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat skeletal muscle tissue with Desmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of frozen rat heart tissue with Desmin antibody.



Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) rat C2C12, 4) mouse heart and 5) mouse skeletal muscle tissue lysate with Desmin antibody. Predicted molecular weight ~54 kDa.

Description

DES, also called Desmin, is a protein that in humans is encoded by the DES gene, and this gene is mapped to 2q35. DES is a member of the intermediate filament (IF) protein family. It is one of the earliest myogenic markers, both in heart and somites, and is expressed in satellite stem cells and replicating myoblasts. It is very important in muscle cell architecture and structure since it connects many components of the cytoplasm. It may be also play an important role in mitochondria function. Additionally, DES provides attachments between the terminal Z disc and membrane-associated proteins to form a force-transmitting system that parallels the thin filaments at myotendinous junctions.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Desmin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-304) was used as the immunogen for this Desmin antibody.

Storage

After reconstitution, the Desmin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.