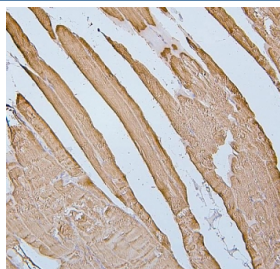


Desmin Antibody [clone 2B5] (RQ5525)

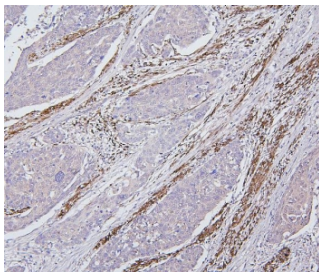
Catalog No.	Formulation	Size
RQ5525	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

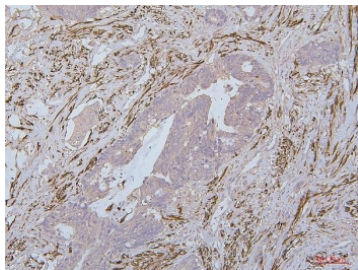
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	2B5
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P17661
Localization	Cytoplasmic, membranous
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Desmin antibody is available for research use only.



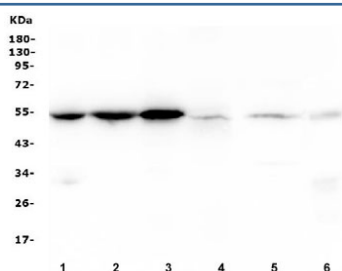
IHC staining of FFPE human skeletal muscle with Desmin antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



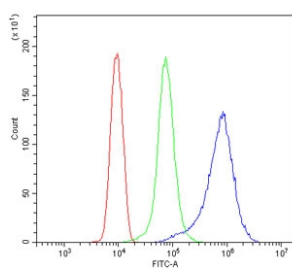
IHC staining of FFPE human esophagus squama cancer with Desmin antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



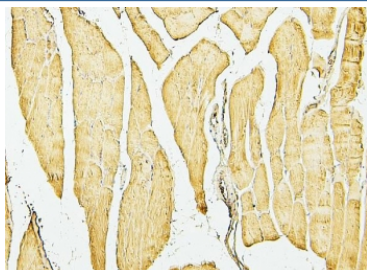
IHC staining of FFPE human colon cancer with Desmin antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



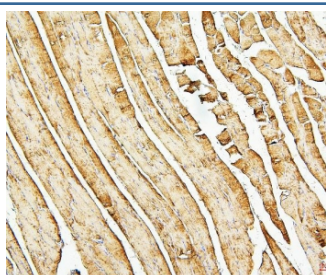
Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart, 4) mouse skeletal muscle, 5) human K562 and 6) rat liver lysate with Desmin antibody. Predicted molecular weight ~54 kDa.



Flow cytometry testing of human ThP-1 cells with Desmin antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Desmin antibody.



IHC staining of FFPE mouse skeletal muscle with Desmin antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat skeletal muscle with Desmin antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

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 the muscle-specific 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. DES is very important in muscle cell architecture and structure since it connects many components of the cytoplasm. It may also play an important role in mitochondria function. What's more, 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

Optimal dilution of the Desmin antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids M1-T304) was used as the immunogen for the 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.