

# AbboMax, Inc

Innovation at Work

## Rabbit anti Desmin (Paired T76/77), Non-phospho.

Alternate Names: Desmin

### ANTIGEN PREPARATION

A synthetic peptide corresponding to the N-terminus surrounding Threonine (Thr76/Thr77) without phosphorylation of human Desmin.

### BACKGROUND

Desmin is a major intermediate filament protein found exclusively in striated (skeletal or cardiac) muscle tissue. It belongs to a large family of class III intermediate filament protein, the main intermediate filamentin mature skeletal, cardiac and smooth muscle cells. Mutations in the gene encoding desmin are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. PKC (Protein Kinase C) and cAMP-dependent protein kinase can induce disassembly of the desmin filaments by phosphorylating multiple sites at N-terminus of desmin which can affect the desmin filament structure which play a role in the regulatory process in assembly and turnover.

### PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

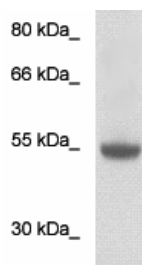
### SPECIFICITY

This antibody recognizes ~55 kDa of human Desmin protein without phosphorylated Thr76/Thr77). It does not recognize phosphorylated peptides confirmed by dot blot. The other species are not tested.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	2-5 µg/ml
Flow cytometry	Not tested

### DATA ATTACHMENTS



**WB:** The whole cell lysate derived from cardiac myocytes was loaded in 10% SDS-PAGE, transferred onto NC membrane, and immune-probed by Rabbit anti-Desmin (Paired T76/77), (Cat#602-290) at 1:500. An immune-reactive band is observed around ~55kDa.

### REFERENCES:

**Xupei Huang, et al.** Protein Kinase C-Mediated Desmin Phosphorylation Is Related to Myofibril Disarray in Cardiomyopathic Hamster Heart. *Experimental Biology and Medicine* 227:1039-1046 (2002).

**S Kitamura, et al.** Protein kinase C phosphorylation of desmin at four serine residues within the non-alpha-helical head domain. *J. Biol. Chem.*, Vol. 264 (10), 5674-5678 (1989).

### Order Information

Description: Rabbit anti -Desmin  
(Paired T76/77), Non-phosphospecific  
Catalogue#: 602-290  
Lot#: See the label  
Size: 100 ug/200 ul  
Host: Rabbit  
Clone: N/A  
Application: ELISA, WB, IHC

**FOR RESEARCH USE ONLY.**