

AbboMax, Inc

Innovation at Work

Rabbit anti Desmin (pThr^{76/77}), Phosphospecific

Alternate Names: Desmin

ANTIGEN PREPARATION

A synthetic peptide corresponding to the N-terminus with a dual phosphorylated threonine (Thr76/Thr77) 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.

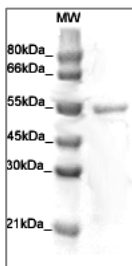
SPECIFICITY

This antibody recognizes ~55 kDa of human Desmin protein at dual phosphorylated threonine (Thr76/Thr77). It does not recognize non-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 cardiac myocytes were treated by 50 ng/ml TPA and 1 unit of PKC for 30 min, then the whole cell lysate was loaded in 10% SDS-PAGE, transferred onto NC membrane, and immune-probed by Rabbit anti phosphor-Desmin (pT76/77), (Cat#602-280) 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 phospho-Desmin (pT76/T77)
Catalogue#: 602-280
Lot#: See the label
Size: 100 µg/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC

FOR RESEARCH USE ONLY.