



## Rabbit anti Desmin (pT76/77) Polyclonal Antibody

Alternative Name(s): Desmin, Intermediate filament protein; CSM1, CSM2; CMD11

### Order Information

- **Description:** Desmin (pT76/77)
- **Catalogue:** 602-280
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide SRL G-\*T-\*T -RTP 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 filament in 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-modified Epitope Affinity Purification.

### **FORMULATION**

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

### **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.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 55.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

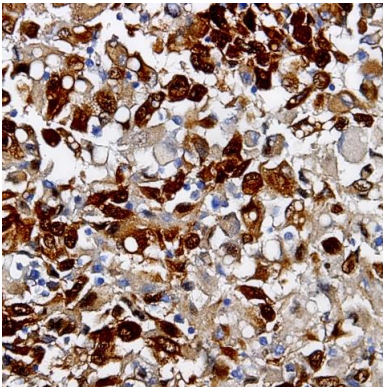
### **FOR RESEARCH USE ONLY.**

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**DATA ATTACHMENTS**



Western Blot: 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 immunoprobed by Rabbit anti Desmin (pT76/77), (Cat#602-280) at 1:500. An immune-reactive band is observed around ~55kDa.



Immunohistochemistry: Human sarcoma tissue (FFPE) stained with Rabbit anti-Desmin (pT76/pT77) (Cat# 602-280) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

**REFERENCES**

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