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Product datasheet for TA354681

Desmin (DES) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the N-terminus with a dual phosphorylated threonine (Thr76/Thr77) of human Desmin.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~55 kDa
Gene Name:	desmin
Database Link:	NP_001918 Entrez Gene 13346 MouseEntrez Gene 64362 RatEntrez Gene 1674 Human P17661
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.

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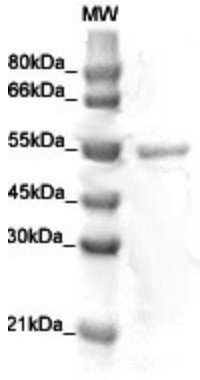
Synonyms: CSM1; CSM2; LGMD2R

Protein Families: Druggable Genome

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



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), at 1:500. An immune-reactive band is observed around ~55kDa.