bs-5301R **[Primary Antibody]**

phospho-Desmin (Thr16) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1674 **SWISS:** P17661

Target: Desmin (Thr16)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human DES around the phosphorylation site of Thr16: RR(p-T)FG.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Desmin is a muscle-specific, type III intermediate filament that integrates the sarcolemma, Z disk, and nuclear membrane in sarcomeres and regulates sarcomere architecture. In adult striated muscle they form a fibrous network connecting myofibrils to each other and to the plasma membrane from the periphery of the Z line structures. Defects in Desmin are the cause of desmin related cardio skeletal myopathy (CSM) also known as desmin related myopathy (DRM). CSM is characterized by skeletal muscle weakness associated with cardiac conduction blocks, arrhythmias, restrictive heart failure, and by intracytoplasmic accumulation of desmin reactive deposits in cardiac and skeletal muscle cells. A desmin related myopathy can have a distal onset, it is then known as hereditary distal myopathy (HDM). Defects in Desmin are also the cause of dilated cardiomyopathy type 1I (CMD1I). CMD1I is an autosomal form of dilated cardiomyopathy characterized by ventricular dilatation and impaired systolic function. Antidesmin antibodies are useful in identification of tumours of myogenic origin

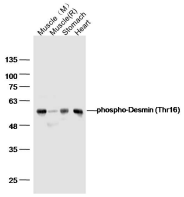
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken)

Predicted MW.: 52 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Muscle (Mouse) Lysate at 40 ug Muscle (Rat) Lysate at 20 ug Stomach (Mouse) Lysate at 40 ug Heart (Mouse) Lysate at 40 ug Primary: Anti-phospho-Desmin (Thr16) (bs-5301R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD

SELECTED CITATIONS

- **[IF=3.8]** Jacko Daniel. et al. Acute resistance exercise and training reduce desmin phosphorylation at serine 31 in human skeletal muscle, making the protein less prone to cleavage. SCI REP-UK. 2024 Nov;14(1):1-15 WB,IHC ;Human. 39543356