bs-18316R **[Primary Antibody]**

LMOD2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 442721 **SWISS:** Q6P5Q4

Target: LMOD2

Immunogen: KLH conjugated synthetic peptide derived from human LMOD2: 451-547/547.

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: Members of the Leiomodin protein family are closely related to the tropomodulin family of actin filament pointed end-capping proteins. Leiomodins are actin-binding proteins that act as strong filament nucleators in muscle cells. Leiomodin 1 is highly expressed in a variety of tissues that contain smooth muscle, therefore it is also known as smooth muscle Leiomodin, or SM-Lmod. Also designated C-Lmod, Leiomodin 3 is found in several types of fetal tissue and is involved in tropomyosin binding. Leiomodin 2, also known as C-LMOD or LMOD2, is a 547 amino acid protein that is specifically expressed in heart and skeletal muscles. Leiomodin 2 binds to tropomyosin and may block the elongation and depolymerization of actin filaments at their pointed end. Leiomodin 2 is encoded by a gene that is located near the hypertrophic cardiomyopathy locus CMH6 on chromosome 7, suggesting that Leiomodin 2 may be involved in that disease process. Leiomodin 2 is expressed as three alternatively spliced variants.

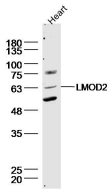
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Pig, Sheep, Cow, Horse)

Predicted MW.: 62 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Heart (mouse) Lysate at 40 ug Primary: Anti-LMOD2 (bs-10196R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 62 kD