Leiomodin-2 Polyclonal antibody

Catalog Number:31202-1-AP

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number: 31202-1-AP	**GenBank Accession Number:** NM_207163.2
Size: 150ul , Concentration: 350 ug/ml by Nanodrop;	**GeneID (NCBI):** 442721
Source: Rabbit	**UNIPROT ID:** Q6P5Q4
Isotype: IgG	**Full Name:** leiomodin 2 (cardiac)
Immunogen Catalog Number: AG35312	**Calculated MW:** 62 kDa
	Observed MW: 70-100 kDa

Purification Method:
Antigen affinity Purification

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat, pig

Positive Controls:

WB : mouse skeletal muscle tissue, mouse tongue tissue, pig tongue tissue, rat skeletal muscle tissue, rat tongue tissue

Background Information

Leiomodin-2 (Lmod2) is a striated muscle-specific actin-binding protein that plays a crucial role in the regulation of thin filament length and assembly in muscle cells. It is particularly important in cardiac and skeletal muscles. In the heart, Lmod2 is necessary for maintaining proper thin filament length, which is crucial for generating contractile force. Studies have shown that Lmod2 knockout in mice leads to dilated cardiomyopathy and rapid cardiac failure due to shorter and non-uniform thin filaments. Lmod2 is also essential for effective skeletal muscle contraction. Mutations or loss of Lmod2 can lead to significant impairments in muscle function. Mutations in the LMOD2 gene have been linked to severe neonatal and infantile dilated cardiomyopathy, a condition characterized by enlarged heart chambers and impaired contractility. Its observed molecular weight is 70-100 kDa.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage
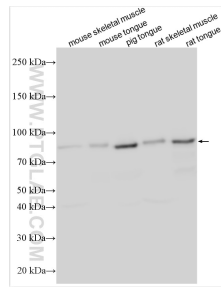
*** 20ul sizes contain 0.1% BSA

Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 31202-1-AP (LMOD2 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.