

NEBL Polyclonal antibody

Catalog Number: 21497-1-AP

Basic Information

Catalog Number:

21497-1-AP

Size:

250 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15882

GenBank Accession Number:

BC110453

GeneID (NCBI):

10529

UNIPROT ID:

O76041

Full Name:

nebulette

Calculated MW:

1014 aa, 116 kDa

Observed MW:

116 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:20000-1:100000

IHC 1:500-1:2000

IF-P 1:300-1:1200

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse heart tissue, rat heart tissue

IHC: mouse heart tissue,

IF-P: mouse heart tissue,

Background Information

Nebulette, also known as NEBL, is a cardiac-specific isoform belonging to the nebulin family of proteins. Nebulette has 23 modular repeat structures of 35 amino acid residues each. Nebulette has an acidic region with unknown structure at its N-terminus, and a serine-rich region adjacent to an SH3 domain at its C-terminus (PMID: 2037050, 20951588). Nebulette functionally links sarcomeric actin to the desmin intermediate filaments in the heart muscle sarcomeres (PubMed:27733623). Nebulette is abundantly expressed in cardiac muscle at Z-disc regions, but not in skeletal or smooth muscle.

Storage

Storage:

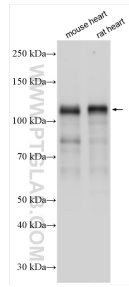
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

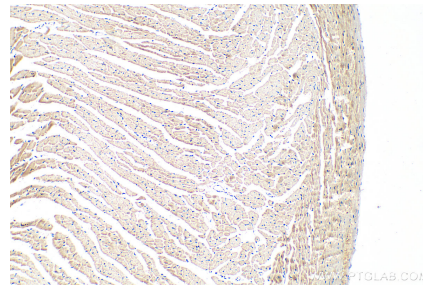
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

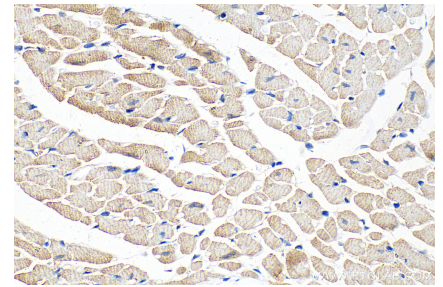
Selected Validation Data



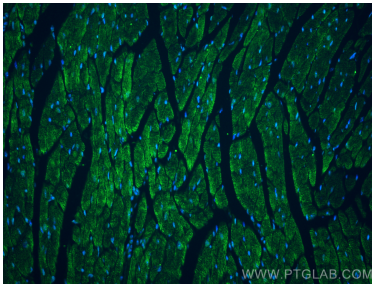
Various lysates were subjected to SDS PAGE followed by western blot with 21497-1-AP (NEBL antibody) at dilution of 1:60000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 21497-1-AP (NEBL antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 21497-1-AP (NEBL antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using NEBL antibody (21497-1-AP) at dilution of 1:600 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).