

Anti-Nebulette Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat)
Molecular Weight:	Theoretical: 116 kDa. Actual: 116 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;</p> <p>Incubation: Anti-Nebulette Polyclonal Antibody, Unconjugated (TMAB-09328) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining</p> <p>2. Sample: Pancreas (Mouse) Lysate at 40 µg</p> <p>Primary: Anti-Nebulette (TMAB-09328) at 1/1000 dilution</p> <p>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution</p> <p>Predicted band size: 116 kD</p> <p>Observed band size: 116 kD</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Nebulette
Antigen Species:	Human
Gene ID:	10529
Uniprot ID:	O76041

Research Background

Nebulette binds to actin and plays an important role in Z-disk assembly. It is a cardiac homolog of nebulin and its expression is abundant in cardiac muscle. Nebulette defects are associated with non-familial idiopathic cardiomyopathy.

Nebulin and nebulette are homologous thin-filament associated proteins expressed in skeletal and cardiac muscles, respectively. Nebulette, unlike nebulin, is confined to the Z-disc region of the sarcomere and does not span the whole thin filament length. Nebulette colocalizes with α -actinin in the pre-, nascent, and mature myofibrils. A polymorphism in the actin-binding motif of nebulette is a genetic marker of susceptibility to nonfamilial idiopathic dilated cardiomyopathy (IDC), characterized by a thin-walled heart and systolic dysfunction.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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