

Anti-MYLPF Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 19 kDa. Actual: 15 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: muscle of mouse embryo; 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;

Incubation: Anti-Fast skeletal Myosin Polyclonal Antibody, Unconjugated (TMAB-09162) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

2. Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MYLPF) Polyclonal Antibody, Unconjugated (TMAB-09162) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.

3. Sample: A673 (Human) Cell Lysate at 30 µg

Primary: Anti-MYLPF (TMAB-09162) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Verified Activity:

Predicted band size: 19 kD

Observed band size: 19 kD

4. Sample: Muscle (Mouse) Lysate at 40 µg

Primary: Anti-MYLPF (TMAB-09162) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 19 kD

Observed band size: 19 kD

5. Sample:

Lane 1: Mouse Muscle tissue lysates

Lane 2: Rat Muscle tissue lysates

Primary: Anti-MYLPF (TMAB-09162) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 19 kDa

Observed band size: 15 kDa

Application:

WB,IHC-P,IHC-Fr,IF

A DRUG SCREENING EXPERT

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 Fast skeletal myosin light chain 2

Antigen Species: Human

Gene ID: 29895

Uniprot ID: Q96A32

Research Background

MYLPF is a 169 amino acid protein that is expressed in fetal and adult skeletal muscle. A calcium binding protein, MYLPF contains three EF hand domains and is encoded by a gene that maps to human chromosome 16p11.2. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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