

## Anti-MYL3 Antibody (5Q450)

### Product Details

Ig Type:	IgG1, Kappa
Reactivity:	Human,Mouse,Rat
Clone:	5Q450
Purification:	Protein G purified

### Applications

1. Blocking buffer: 5% NFDM/TBST  
Primary ab dilution: 1:5000  
Primary ab incubation condition: 2 hours at room temperature  
Secondary ab: Goat Anti-Mouse IgG H&L (HRP)  
Lysate: Mouse heart, Rat heart  
Protein loading quantity: 20 µg  
Exposure time: 1 s  
Predicted MW: 22-25 kDa  
Observed MW: 22-25 kDa
2. Tissue: Human skeletal muscle  
Section type: Formalin fixed & Paraffin-embedded section  
Retrieval method: High temperature and high pressure  
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:50  
Primary ab incubation condition: 1 hour at room temperature  
Secondary ab: SP Kit (Mouse)  
Counter stain: Hematoxylin (Blue)  
Comment: Color brown is the positive signal for TMAB-09157
3. Tissue: Rat heart  
Section type: Formalin fixed & Paraffin-embedded section  
Retrieval method: High temperature and high pressure  
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:50  
Primary ab incubation condition: 1 hour at room temperature  
Secondary ab: SP Kit (Mouse)  
Counter stain: Hematoxylin (Blue)  
Comment: Color brown is the positive signal for TMAB-09157
4. Tissue: Mouse skeletal muscle  
Section type: Formalin fixed & Paraffin-embedded section  
Retrieval method: High temperature and high pressure  
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:50  
Primary ab incubation condition: 1 hour at room temperature  
Secondary ab: SP Kit (Mouse)  
Counter stain: Hematoxylin (Blue)  
Comment: Color brown is the positive signal for TMAB-09157

Verified Activity:

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:1000-5000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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### 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.

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### Antigen Details

Gene ID: 4634

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### Research Background

Myosin is the major component of thick muscle filaments, and is a long asymmetric molecule containing a globular head and a long tail. The molecule consists of two heavy chains each ~200,000 daltons, and four light chains each ~16,000 - 21,000 daltons. Activation of smooth and cardiac muscle primarily involves pathways which increase calcium and myosin phosphorylation resulting in contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain. Human myosin light chain has clinical application as a cardiac marker.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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