Data Sheet (Cat.No.TMAB-09175)

Anti-Myoglobin Antibody (8K120)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 17 kDa. Actual: 15 kDa.
Clone:	8K120
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (human 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 (Myoglobin) Monoclonal Antibody, Unconjugated (TMAB-09175) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining. 2. Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Rat Muscle tissue lysates Lane 3: Rat Heart tissue lysates Primary: Anti-Myoglobin (TMAB-09175) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 17 kDa Observed band size: 15 kDa
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:400-800; 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:	Recombinant Protein: human Myoglobin
Antigen Species:	Human
Gene ID:	4151
Uniprot ID:	P02144

Research Background

Myoglobin is a small heme containing protein responsible for the oxygen deposition in muscle tissues. Only one form of myoglobin is expressed in cardiac and skeletal muscles. Myoglobin is known as a marker of myocardial damage and it has been used for more than three decades. Nowadays it still is very commonly used in clinical practice as an early marker of AMI. It appears in patient's blood 1 to 3 hours after onset of the symptoms, reaching

peak level within 8 to 12 hours. Myoglobin is not so cardiac specific as cTnI or cTnT. Because of high myoglobin concentration in skeletal muscle tissue, even minor skeletal muscle injury results in the significant increase of myoglobin concentration in blood. Thus myoglobin is used together with cTnI or cTnT in clinical practise for better specificity in AMI diagnosis.

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