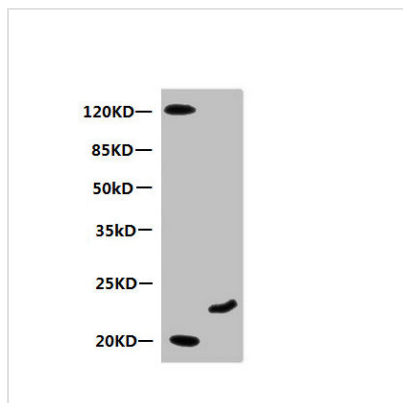




# MB Monoclonal Antibody

<b>Product Code</b>	CSB-MA079101A0m
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P02144
<b>Immunogen</b>	Recombinant Human Myoglobin protein
<b>Raised In</b>	Mouse
<b>Species Reactivity</b>	Human, Mouse
<b>Specificity</b>	Specific for Human Myoglobin denatured and native forms
<b>Tested Applications</b>	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500, IF:1:50-1:200
<b>Relevance</b>	<p>Myoglobin is a small heme containing protein (153 amino acid residues, molecular weight (w/o heme) 17053 Da and theoretical pI=7.29) 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.</p>
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
<b>Purification Method</b>	>95%, Protein G purified
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Myoglobin; MB; MGC13548; PVALB
<b>Product Type</b>	Monoclonal Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Clone No.</b>	7A3D2
<b>Image</b>	



#### Western Blot

All lanes: Mouse anti-Human Myoglobin monoclonal antibody at 0.3μg/ml

Lane 1: Mouse heart muscle lysate

Lane 2: Recombinant Myoglobin at 10μg

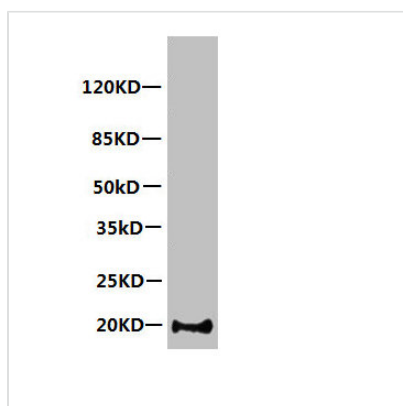
Secondary HRP labeled Goat polyclonal to

Mouse IgG at 1/3000 dilution

Predicted band size: 18 kDa

Observed band size: 20 kDa

Additional bands at: 120 kDa



#### Western Blot

All lanes: Mouse anti-Human Myoglobin monoclonal antibody at 1μg/ml

Lane 1: Myoglobin transfected 293 cell lysate

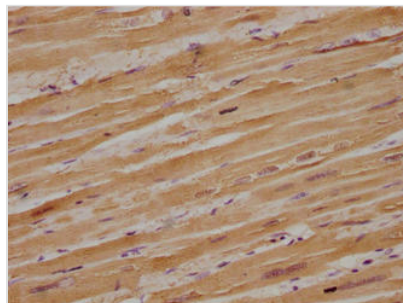
Secondary HRP labeled Goat polyclonal to

Mouse IgG at 1/3000 dilution

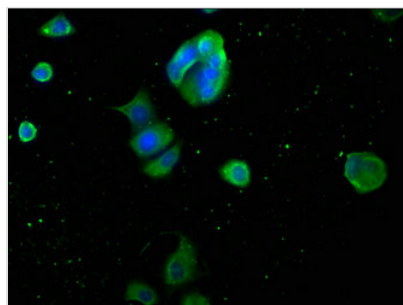
Predicted band size: 18 kDa

Observed band size: 20 kDa

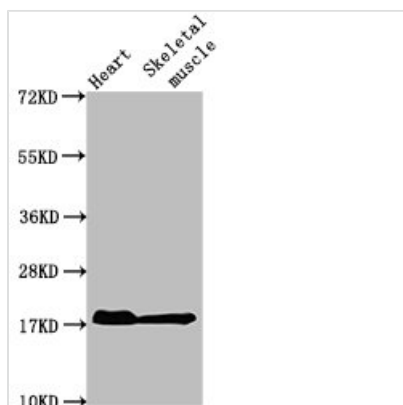
Additional bands at: 23, 25, 40 kDa



Immunohistochemical of paraffin-embedded human heart tissue using CSB-MA079101A0m at dilution of 1:100



Immunofluorescent analysis of MCF-7 cells using CSB-MA079101A0m at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)



#### Western Blot

Positive WB detected in: Mouse heart tissue,  
Mouse skeletal muscle tissue

All lanes: MB antibody at 1:2000

Secondary

Goat polyclonal to Mouse IgG at 1/50000 dilution

Predicted band size: 18 kDa

Observed band size: 18 kDa