

Myoglobin Monoclonal Antibody

Catalog No: #42039



Package Size: #42039-1 50ul #42039-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

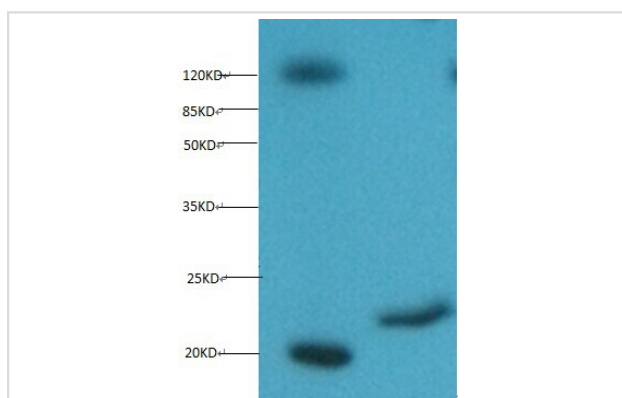
Product Name	Myoglobin Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	WB
Species Reactivity	Hu
Specificity	specific for Human Myoglobin denatured and native forms
Immunogen Type	protein
Immunogen Description	Recombinant Human Myoglobin protein
Target Name	Myoglobin
Other Names	myoglobin;MB;MGC13548;PVALB
Accession No.	Swiss-Prot#: P02144
Calculated MW	17kd
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: □ 1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

Images



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

Lane 1:mouse heart muscle lysate

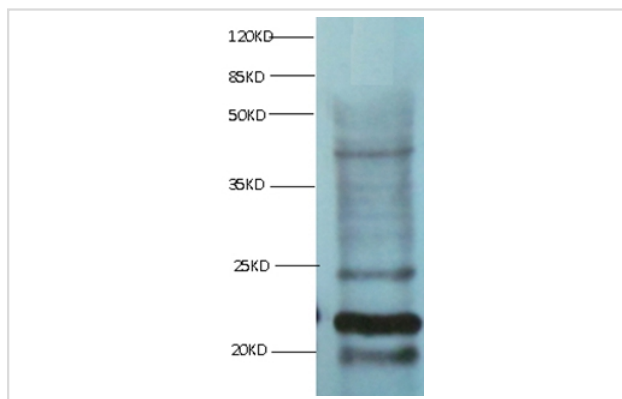
Lane 2:Recombinant Myoglobin at 10ug

Secondary HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilution

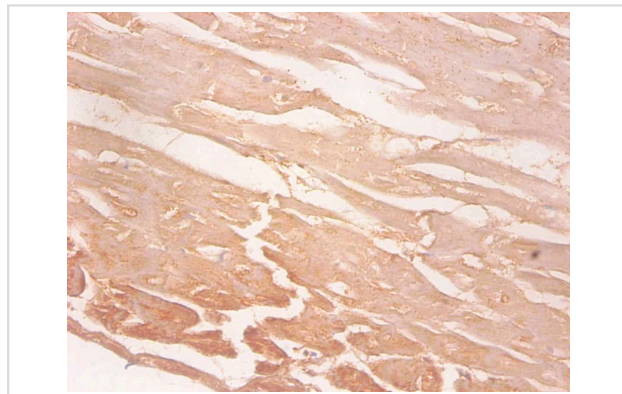
Predicted band size : 17kd

Observed band size : 20kd

Additional bands at:120KD(We are unsure as to the identity of this extra band.)



All lanes :Mouse anti-Human Myoglobin monoclonal antibody at 1ug/ml
 Lane 1:Myoglobin transfected 293 cell lysate
 Secondary
 HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilution
 Predicted band size : 17kd
 Observed band size : 20kd
 Additional bands at:23/25/40KD(We are unsure as to the identity of this extra band.)



Immunohistochemical analysis of paraffin-embedded human heart tissue using #42039 at dilution of 1:100.

Background

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.

References

- [1] Karabay O, Tuna N, Ogutlu A, Gozdas HT.High ferritin and myoglobin level in legionella pneumonia: a case report and review of literature. Indian J Pathol Microbiol. 2011 Apr-Jun;54(2):381-3.[2] Liu M, Hou M, Liu LP, Zhang CX, Zhao CY, Ma CJ, Zhong S

Note: This product is for in vitro research use only and is not intended for use in humans or animals.