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[Marker Primary Antibody]

Rabbit Anti-Myoglobin/Biotin Conjugated antibody

Catalog Number: SL41107R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Myoglobin/Biotin
Immunogen:	Purified Human Myoglobin (Natural Human Myoglobin protein)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Background:	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. **Function:** Serves as a reserve supply of oxygen and facilitates the movement

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	of oxygen within muscles. **Similarity:** Belongs to the globin family. **Database links:** **Entrez Gene:** 4151 Human **Entrez Gene:** 17189 Mouse **Entrez Gene:** 59108 Rat Omim: 160000 Human **SwissProt:** P02144 Human **SwissProt:** P04247 Mouse **SwissProt:** Q9QZ76 Rat **Unigene:** 517586 Human **Unigene:** 404074 Mouse **Unigene:** 40511 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Myoglobin is present in muscle, with particularly abundant content in cardiac muscle. It has high tissue specificity and is a specific marker for striated muscle, but its sensitivity for Tumour is relatively poor. It is mainly used for the diagnosis and differential diagnosis of striated muscle Tumour. Positive expression may also be seen in a small number of malignant mixed Müllerian tumors, testicular teratomas, and Wilms tumors.