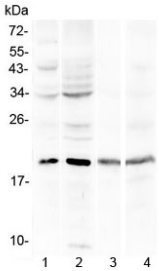
Myoglobin Antibody (N-Terminal Region) (R32952)

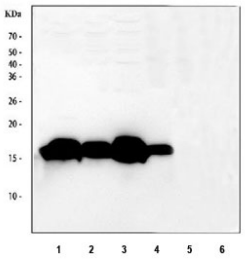
Catalog No.	Formulation	Size
R32952	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

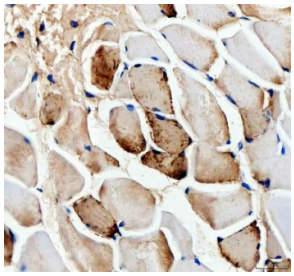
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P02144
Localization	Cytoplasmic
Applications	Western Blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Myoglobin antibody is available for research use only.



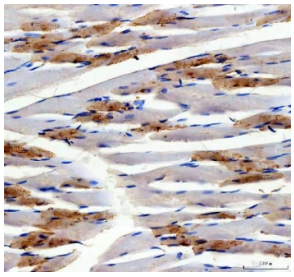
Western blot testing of human 1) HepG2, 2) HeLa, 3) HL-60 and 4) Jurkat cell lysate with Myoglobin antibody at 0.5ug/ml. Predicted molecular weight ~17 kDa.



Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart, 4) mouse skeletal muscle, 5) rat liver and 6) mouse liver tissue lysate with Myoglobin antibody at 0.5ug/ml. Predicted molecular weight ~17 kDa.



IHC staining of FFPE mouse skeletal muscle tissue with Myoglobin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat skeletal muscle tissue with Myoglobin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Myoglobin (MB) also known as PVALB, is a single-chain globular protein of 153 or 154 amino acids, containing a heme (iron-containing porphyrin) prosthetic group in the center around which the remaining apoprotein folds. It is a member of the globin superfamily and is expressed in skeletal and cardiac muscles. This gene is mapped to chromosome 22q11-q13. Myoglobin is released from damaged muscle tissue (rhabdomyolysis), which has very high concentrations of myoglobin. The released myoglobin is filtered by the kidneys but is toxic to the renal tubular epithelium and so may cause acute renal failure.

Application Notes

Optimal dilution of the Myoglobin antibody should be determined by the researcher.

Immunogen

Amino acids 3-35 (LSDGEWQLVLNVWGKVEADIPGHGQEVLIRLFK) were used as the immunogen for the Myoglobin antibody.

Storage

After reconstitution, the Myoglobin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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