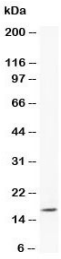
Myoglobin Antibody (R30924)

Catalog No.	Formulation	Size
R30924	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P02144
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml
Limitations	This Myoglobin antibody is available for research use only.



Western blot testing of Myoglobin antibody and human placenta tissue lysate. Predicted molecular weight ~17 kDa.

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. Two structural variants of myoglobin were described by Boyer et al.(1963). Boulton et al.(1969) studied postmortem muscle from 2,500 people. Two Myoglobin variants were found, and in one of these substitution of lysine for glutamic acid at residue 53 was demonstrated. MG was the first protein to have its three-dimensional structure revealed. Jeffreys et al.(1984) used DNA

probes isolated from the cloned gene to map the gene in human-rodent somatic cell hybrids. The locus mapped to chromosome 22q11-q13. MG is released from damaged muscle tissue (rhabdomyolysis), which has very high concentrations. The released MG is filtered by the kidneys but is toxic to the renal tubular epithelium and so may causeacute renal failure.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Myoglobin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Myoglobin (LFRKDMASNYKELGFQG) was used as the immunogen for this 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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