

## Product Datasheet

# Myoglobin Antibody

Catalog No: CY5631

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP



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### Information

**UniProt ID:** P02144

**All Names:** MB; MGC13548; MYG; Myoglobin; PVALB;

**Form:** Liquid

**Storage instructions:** Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Purity:** Affinity-chromatography

**Immunogen:** A synthesized peptide

**Molecular Wt.:** 17 kDa

### Application

WB: 1:500~1:2000

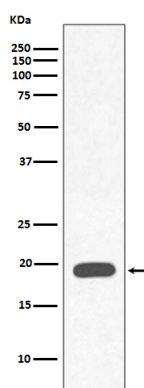
IHC: 1:50~1:200

ICC/IF: 1:50~1:200

IP: 1:30

### Background

Myoglobin (MB) is an oxygen-binding protein that contains one polypeptide chain and one heme group. It is expressed in vertebrate skeletal and cardiac muscles where it plays an essential role in the storage and transport of oxygen to mitochondria. Reversible oxygen binding occurs by a linkage with the imidazole nitrogen of the 91st histidine residue in the myoglobin chain. Research studies indicate that the blockade of myoglobin in isolated cardiac myocytes mimics hypoxia when electrically stimulated for paced contractions (1). During fetal development, myoglobin is required to support cardiac function (2). Diving mammals are known to have high concentrations of myoglobin in their blood, which may contribute to their ability to endure long periods of oxygen deprivation during deep dives (3).



Western blot analysis of Myoglobin expression in Human heart muscle lysate.

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