# Rabbit anti-human Myoglobin (Mb) monoclonal antibody (clone 2F11)

**Catalog Number: R15003MF11**

YUROGEN BIOSYSTEMS

## General Information

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|---|---|
| **Immunogen** | Full length recombinant human Mb protein |
| **IgG type** | Rabbit IgG |
| **Clonality** | Monoclonal |
| **Applications** | ELISA, ITA |
| **Pairing antibody** | R15003MA12, R15003MF6, R15003MD3 |
| **Specificity** | Human Mb |
| **Formulation** | 0.22 μM filtered solution of PBS, pH 7.4 |
| **Purity** | > 95% determined by SDS-PAGE |
| **Storage** | ≤ -20 °C for 1 year or 4 °C for 3 months |

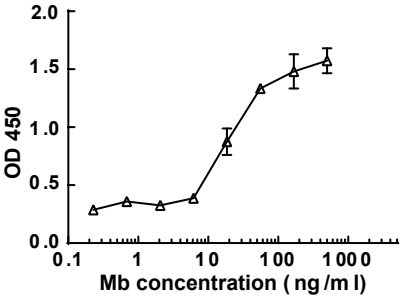
**Abbreviations:**
ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;

## Preparation

Monoclonal antibody is produced by immunizing rabbit with full length human Mb and purified using protein A resin.

## Application

### *Sandwich ELISA*




**ELISA conditions**
1) capture antibody: rabbit anti-Mb monoclonal antibody (clone 6F6, R15003MF6) at 1 μg/ml
2) detection antibody: rabbit anti-Mb monoclonal antibody (clone 2F11, R15003MF11) at 0.5 μg/ml

### *Suggested pairs*

| Capture antibody | Detection antibody |
|---|---|
| **R15003MA12, R15003MF6, R15003MD3** | **R15003MF11** |

## Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

## Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

## Background

Myoglobin (Mb) is an iron- and oxygen-binding protein which is expressed in vertebrate skeletal and cardiac muscles. It contains one polypeptide chain and one heme group. 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. Myoglobin is released rom damaged muscle tissue, making it a sensitive marker for muscleinjury and an important clinical marker for heart attack in patients with chest pain.

**Research Use or Further Manufacturing Only**

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