

Rabbit anti-human Myoglobin (Mb) monoclonal antibody (clone 7D3)

Catalog Number: R15003MD3



General Information

Immunogen	Full length recombinant human Mb protein
IgG type	Rabbit IgG
Clonality	Monoclonal
Applications	ELISA, ITA
Pairing antibody	R15003MA12, R15003MF6, R15003MF11
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:

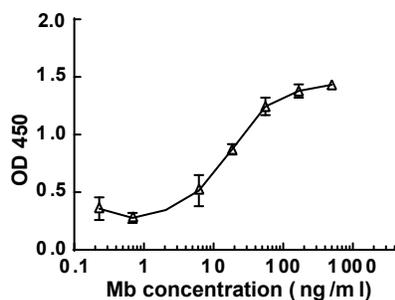
ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;

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 2F11, R15003MF11) at 1 µg/ml
- 2) detection antibody: rabbit anti-Mb monoclonal antibody (clone 7D3, R15003MD3) at 0.5 µg/ml

Suggested pairs

Capture antibody	Detection antibody
R15003MF11, R15003MA12, R15003MF6	R15003MD3

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 from damaged muscle tissue, making it a sensitive marker for muscle injury and an important clinical marker for heart attack in patients with chest pain.

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