

Datasheet for ABIN6940005

Recombinant anti-Myoglobin antibody[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Myoglobin (MB)
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Myoglobin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human full-length Myoglobin (MB) protein.
Clone:	RMB-2105
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Myoglobin (MB)
Alternative Name:	Myoglobin (Muscle Cell Marker) (MB Products)
Background:	Myoglobin is a cytosolic oxygen-binding protein responsible for the storage and diffusion of oxygen within myocytes. Expression of myoglobin is highest in skeletal and cardiac muscle.

Target Details

Myoglobin is well accepted as an O₂-storage protein in muscle, capable of releasing O₂ during periods of hypoxia or anoxia. In combination with other striated muscle markers such as vimentin and myogenin, myoglobin is helpful in the identification of rhabdomyosarcoma and tumors with skeletal muscle differentiation. Reportedly, myoglobin is expressed on epithelial cancer cells due to changed metabolic and environmental conditions.

Molecular Weight: 17kDa

Gene ID: 4151

UniProt: [P02144](#)

Pathways: [Brown Fat Cell Differentiation](#)

Application Details

Application Notes: Positive Control: SK-BR3 or T47D cells. Skeletal or Cardiac Muscle.
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

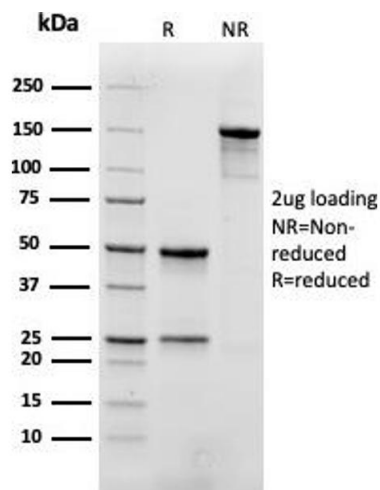
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



Western Blotting

Image 1. SDS-PAGE Analysis. Purified Myoglobin Recombinant Mouse Monoclonal Antibody (rMB/2105). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human skeletal muscle stained with Myoglobin Recombinant Mouse Monoclonal Antibody (rMB/2105).