

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 36-2740: Anti-Myoglobin (Muscle Cell Marker) Monoclonal Antibody(Clone: rMB/2105)

Clonality: Monoclonal
Clone Name: rMB/2105
Application: IHC

**Reactivity:** Human, Mouse, Rat

 Gene :
 MB

 Gene ID :
 4151

 Uniprot ID :
 P02144

Alternative Name: MB; Myoglobin; PVALB Isotype: Mouse IgG1, kappa

Immunogen Information: Recombinant human full-length Myoglobin (MB) protein.

## **Description**

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. 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.

## **Product Info**

Amount :  $20 \mu g / 100 \mu g$ 

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage condition :** 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.

## **Application Note**

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



Fig. 1: Formalin-fixed, paraffin-embedded human skeletal muscle stained with Myoglobin Recombinant Mouse Monoclonal Antibody (rMB/2105).