9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

36-2739: Anti-Myoglobin (Muscle Cell Marker) Monoclonal Antibody(Clone: MB/2105)

Clonality :	Monoclonal
Clone Name :	MB/2105
Application :	IHC
Reactivity :	Human, Mouse, Rat
Gene :	MB
Gene ID :	4151
Uniprot ID :	P02144
Alternative Name :	MB; Myoglobin; PVALB
Isotype :	Mouse IgG2b, 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 µg / 100 µg
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);

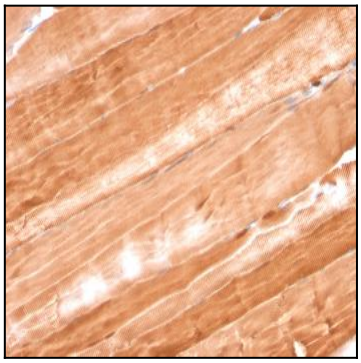

Fig. 1: Formalin-fixed, paraffin-embedded Rat Skeletal Muscle stained with Myoglobin Mouse Monoclonal Antibody (MB/2105).

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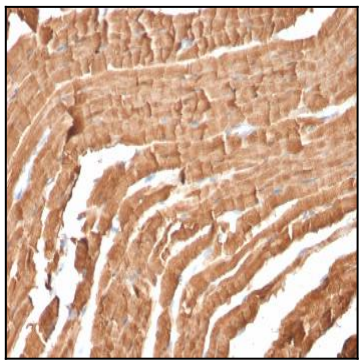

Fig. 2: Formalin-fixed, paraffin-embedded Mouse Heart stained with Myoglobin Mouse Monoclonal Antibody (MB/2105).