

**Rabbit Anti-Myoglobin [EP87]: RM0140**

**Intended Use:** For Research Use Only

**Description:** Myoglobin, an intracellular haemoprotein expressed in the heart and oxidative skeletal myofibres of vertebrates, binds molecular oxygen and may facilitate oxygen transport from erythrocytes to mitochondria, thereby maintaining cellular respiration during periods of high physiological demand. Antibody to myoglobin labels skeletal and cardiac muscle cells. In combination with other striated muscle markers such as vimentin and myogenin, myoglobin is helpful in identification of rhabdomyosarcoma and tumors with skeletal muscle differentiation. Recently, myoglobin has been reported to be expressed on epithelial cancer cells due to changed metabolic and environmental conditions. Myoglobin expression on cancer cells may play a causative role in tumor progression.

**Specifications**

Clone: EP87  
Source: Rabbit  
Reactivity: Human  
Isotype: IgG  
Localization: Nucleus  
Formulation: Purified antibody in 0.2% BSA and 15mM sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC  
Package:

Description	Catalog No.	Size
Myoglobin Concentrated	RM0140	1 ml

**IHC Procedure\***

Positive Control Tissue: Heart muscle  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.