



Product Information

MONOCLONAL ANTI-HUMAN MYOGLOBIN CLONE MG-1 Mouse Ascites Fluid

Product No. **M7773**

Monoclonal Anti-Human Myoglobin (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified human skeletal muscle myoglobin was used as the immunogen. The isotype is determined by a double diffusion assay using immunoglobulin and subclass specific antisera. The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Monoclonal Anti-Human Myoglobin is immunospecific for myoglobin as determined by an ELISA. The antibody specifically stains human skeletal muscle. No cross-reactivity is observed with hemoglobin.

Working Dilution

A minimum working dilution of 1:5,000 was determined by ELISA using myoglobin from human skeletal muscle at a concentration of 25 µg/ml as the coating solution. When used in immunohistochemical PAP staining a minimum dilution of 1:400 is obtained for skeletal muscle.

In order to obtain best results it is recommended that each individual user determine their optimum working dilution by titration assay.

Description

Myoglobin is a small (M.W. 17,800 daltons) heme-protein within skeletal and cardiac muscle. Upon damage to the muscle cell due to infarction of a

coronary artery, neurological trauma, infection or tumor processes, myoglobin escapes to the environment and can be found in plasma using sensitive assays.

Uses

Using commercially available myoglobin from various species the following pattern of antibody binding was obtained in an ELISA. Myoglobin at 25 µg/ml was used as the coat and OD was read at 405 nm.

Origin of Myoglobin	Dilution of Antibody		
	1:100	1:1000	1:5000
Human Skeletal Muscle	0.67	0.85	0.72
Equine Skeletal Muscle	0.48	0.32	0.07
Equine Cardiac Muscle	0.33	0.23	0.04
Canine Skeletal Muscle	0.17	0.13	0.03
Canine Cardiac Muscle	0.15	0.09	0.00
Sperm Whale Skeletal Muscle	0.01	0.01	0.01

Storage

For continuous use, store at 2-8°C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. Storage in "frost-free" freezers is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

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