Antibody to **Myosin Heavy Chain (slow)**

**Catalogue No. VP-M667**

**Product Specifications**

**Intended use:** For in-vitro diagnostic use.

Mouse Monoclonal Anti-Human Myosin Heavy Chain (slow) is intended for immunohistochemistry methodologies. A differential diagnosis is complemented by using a panel of antibodies and in conjunction with morphological studies, patient clinical history and other diagnostic tests by a qualified pathologist.

Myosin is a contractile muscle specific protein composed of two heavy and four light chains. The myosin heavy chain has many isoforms which are specific for different muscles or fibre types, some of which are developmentally regulated. The range of myosin heavy chain antibodies may prove useful for investigating development of intrrafusal and extrafusal muscle fibres and the course of muscle fibre regeneration.

**Storage and stability:** Store unopened antibody at 2-8ºC. Do not use after expiration date indicated on the vial label. The reconstituted antibody is stable for 2 months when stored at 2-8ºC. For long term storage, aliquot & freeze at -20ºC. Repeated freezing & thawing should be avoided. Working dilutions should be prepared on the day of use. Return to 2-8ºC immediately after use.

**Specificity:** Rabbit myosin slow type heavy chain. Cross reacts with human myosin slow type heavy chain. This antibody also reacts with type I myosin heavy chain in rat, mouse, dog, sheep, pig and goat muscle.

**Clone:** WB-MHCs  
**Ig Class:** IgG1  
**Mouse IgG conc:** See details on vial label

**Immunogen:** Native myosin extracted from rabbit soleus muscle.

**Product:** Lyophilised tissue culture supernatant containing 15mM sodium azide. Reconstitute the contents with the correct volume of sterile distilled water as indicated on the vial.

**Precautions:** As this product is derived from biological material proper handling procedures should be employed. Sodium azide is not considered hazardous at 15mM. However, an MSDS is available on request or online (www.vectorlabs.com) for safety or disposal information.

**Specimen Preparation**

**Paraffin sections:** VP-M667 cannot be used on paraffin wax embedded tissue.  
**Frozen sections:** Yes, unfixed

**INSTRUCTIONS FOR USE**

Dilutions and times are only a guide, there may be variations due to fixation, specimen collection and preparation, optimal conditions should be established by the individual laboratory.

VP-M667 should be applied to sections in the dilution range 1:20-1:80 for 60 minutes at 25ºC.

**Positive control tissue:** A positive control should be used in each run. The recommended control tissue is type I myosin heavy chain in human, rat, mouse, rabbit, dog, sheep, pig and goat muscle.

**Negative control tissue:** A negative control tissue should be set up to verify the specificity of the antibody.  
**Negative control reagent:** A negative control mouse immunoglobulin (e.g. I-2000) should be used to evaluate non-specific binding.

**Visualisation:** See overleaf.

For professional use only.

**Selected References:**


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