Description:  
Dystrophin (N-terminus) mouse monoclonal antibody

Immunoglobulin class:  
IgG2a

Clone:  
Dy10/12B2

Immunogen:  
Fusion protein representing the amino acids 67 to 713 of the dystrophin molecule.

Epitope:  
Antibody is suggested to bind to regions from amino acids 308 to 351. These residues span the junction of exons 9 and 10. The epitope recognised may be part of a hinge region between the amino domain and the central rod domain.

Presentation:  
Lyophilized tissue culture supernatant diluted in 1% BSA containing 15mM sodium azide. Reconstitute with 2.5 ml of distilled water.

Species cross-reactivity:  
Human and monkey.

Storage Conditions:  
Keep unopened vial at 2 - 8 °C for 1 year. Once opened it is recommended that reconstituted stock solution be aliquoted and quick frozen and stored at -20 °C. Do not repeatedly freeze/thaw.

Applications:  

Immunohistochemistry  
Paraffin sections:  No  
Frozen sections:  Yes - unfixed.

Working Dilution*:  Neat - 1:20 for 1 hr. at 25 °C.  
Positive Control:  Snap frozen normal human striated muscle. Staining pattern - continuous rim of staining at the periphery of muscle fibers.

Important:  For reliable interpretation of dystrophin staining results, a SPECTRIN control must be used.

Western blotting:  
Working Dilution*:  1:25 - 1:50  
Positive Control:  Skeletal muscle, doublet of bands at approximately 400kD.

* Recommended dilutions using VECTASTAIN® Elite® ABC Kits.

Functional Aspects:  
Dystrophin is a rod-like cytoskeletal protein found adjacent to the muscle membrane. It is one component of a complex system that links actin on the inside of muscle fibers to extracellular matrix proteins that surround the fibers. Mutations in the genes that encode for dystrophin lead to altered expression of this protein and cause muscular dystrophy. This antibody will help detect dystrophin in normal tissue sections.

Selected References  