Anti-Human Dystrophin (N-terminus)
Clone Dy10/12B2
Cat. no. MONX10799

Specificity
Reacts strongly with the amino terminal domain (between amino acids 321 and 494) of human dystrophin. Patient immunoreactivity indicates epitope is near exons 10 to 12. Epitope mapping suggests that sequences from amino acids 308 to 351 are involved in antibody binding. This region spans the junction of exons 9 and 10 and the epitope recognised may be part of a hinge region joining the amino domain to the central rod domain. No reactivity with DMD/BMD patients deleted for exons 10 to 12. No crossreaction is observed with mouse (high background only), rat, rabbit, dog, chicken, hamster and pig dystrophin.
MONX10799is recommended for use as part of a panel of antibodies in immunohistochemistry to direct genetic mutation analysis in the diagnosis and differentiation of the recessive and X-linked muscular dystrophies. In particular, for the detection of abnormalities of dystrophin expression in muscle biopsies that occurs in both Duchenne muscular dystrophy and Becker muscular dystrophy.

Immunoglobulin type
Mouse IgG2a

Use
The antibody can be used for immunohistochemistry on frozen sections.

Instructions for use
Suggested dilution: neat - 1:20 for 60 minutes at 25°C. This is provided as a guide and users should determine their own optimal working dilutions.

Specimen Preparation: Freeze specimen tissue blocks in isopentane chilled in liquid nitrogen (see Warnings and Precautions). The specimens do not require further fixation but should be embedded in OCT™ compound (Sakura, Product No. Tissue-Tek 4583).
Immunogen: Fusion protein containing amino acids 67 to 713.

Positive control
Normal human striated muscle.

Presentation
MONX10799 is a lyophilized tissue culture supernatant containing 15mM sodium azide as a preservative. The user is required to reconstitute the contents of the vial with the correct volume of sterile distilled water as indicated on the vial label.

Total protein concentration: 1.0 - 8.0 g/L. Refer to vial label for batch specific total protein concentration.
Antibody concentration: Greater than or equal to 2.7 mg/L as determined by ELISA. Refer to vial label for batch specific Ig concentration.
Literature
Storage and Handling
Store unopened antibody at 2-8°C. Under these conditions, there is no significant loss in product performance up the expiry date indicated on the vial label. Do not use after expiration date indicated on the container label. The reconstituted antibody is stable for at least two months when stored at 2-8°C. For long term storage, it is recommended that aliquots of the antibody are stored frozen at -20°C (frost free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use. Return to 2-8°C immediately after use. Storage conditions other than those specified above must be verified by the user.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.