Anti-Human beta-dystroglycan (43kD).
Clone 43DAG1/8D5
Cat. no. MONX10791

Specificity
MONX10791 is 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, to identify a reduction in betadystroglycan labelling in some
forms of muscular dystrophy where another component, eg dystrophin, is directly affected. Also
crossreacts strongly with beta-dystroglycan in sections of mouse, rat, rabbit, dog and chicken,
hamster and toad muscle. Other animal species not tested.

Immunoglobulin type
Mouse IgG2a

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

Instructions for use

Immunohistochemistry:
Suggested dilution: 1:50 - 1:200 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).

Immunogen: Synthetic peptide containing 15 of the last 16 amino acids at the extreme C-terminus of
the human beta-dystroglycan sequence (PKNMTPYRSPPPYVP-P\text{COOH}).

Positive control
skeletal muscle.

Presentation
MONX10791 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 18.9 mg/L as determined by ELISA. Refer to vial
label for batch specific Ig concentration.

Literature
1. National Committee for Clinical Laboratory Standards (NCCLS). Protection of laboratory workers
from infectious diseases transmitted by blood and tissue; proposed guideline. Villanova, P.A.
1991;7(9). Order code M29-P.
2. Battifora H. Diagnostic uses of antibodies to keratins: a review and immunohistochemical
comparison of seven monoclonal and three polyclonal antibodies. Progress in Surgical Pathology 6:1-

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.

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