DUX4 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 57101 (clone P2B1)
Size: 100ug in PBS, pH 7.4. Purified by Protein G affinity chromatography.

BACKGROUND

Facioscapulohumeral muscular dystrophy (FSHD) is caused by the deletion of a subset of D4Z4 macro-satellite repeats on chromosome 4. Each repeat contains a retrogene encoding the double-homeobox factor DUX4. DUX4 expression is epi-genetically suppressed in differentiated tissues, and the residual DUX4 transcripts are spliced to remove the carboxyterminal domain that has been associated with cell toxicity. In FSHD individuals, the expression of the full-length DUX4 transcript is not completely suppressed in skeletal muscle and possibly other differentiated tissues.

SPECIFICATION SUMMARY

Antigen: C-terminal 76 amino acids of DUX4 with glutathione-s-transferase (gst) tag.
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

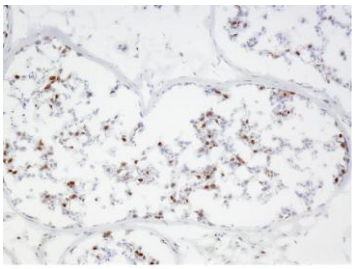
This antibody recognizes human DUX4. It does not cross-react with DUX4c.

REFERENCE

Snider L et al 2010 PLoS Genetics 6: 1-14.

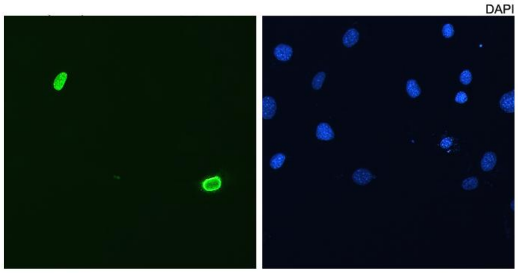
APPLICATIONS

Immunohistochemistry



Frozen sections of human testis stained with P2B1.

Immunofluorescence



C2C12 myoblasts transfected with pCS2+DUX4 stained with P2B1. Counterstained with DAPI for nuclei.

See reference below for procedural details. Enduser should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20^{o}C.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.

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