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Anti-DUX4 Antibody [P2B1]

Mouse Anti-Human DUX4 Monoclonal IgG1
Catalog No. SMC-192



Discovery through partnership | Excellence through quality

Overview

Product Name

DUX4 Antibody

Description

Mouse Anti-Human DUX4 Monoclonal IgG1

Species Reactivity

Human, Mouse

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000), ICC/IF (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

C-terminal 76 amino acids of DUX4 with glutathione-s-transferase (gst) tag

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

P2B1

Isotype

IgG1

Specificity

Detects ~45kDa. No cross-reactivity with DUX4c.

Cite This Product

Mouse Anti-Human DUX4 Monoclonal, Clone P2B1 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-192)

Certificate Of Analysis

1 µg/ml of SMC-192 was sufficient for detection of DUX4 in 20 µg of HeLa cell lysate by ECL immunoblot analysis using goat anti-mouse IgG: HRP as the secondary.

Biological Description

Alternative Names

Double homeobox 4 Antibody, Double homeobox 10 Antibody, DUX10 Antibody, Double homeobox protein 4/10 Antibody

Research Areas

Cell Signaling

Cellular Localization

Nucleus

Accession Number

NP_149418.3

Gene ID

22947

Swiss Prot

F5GZ66

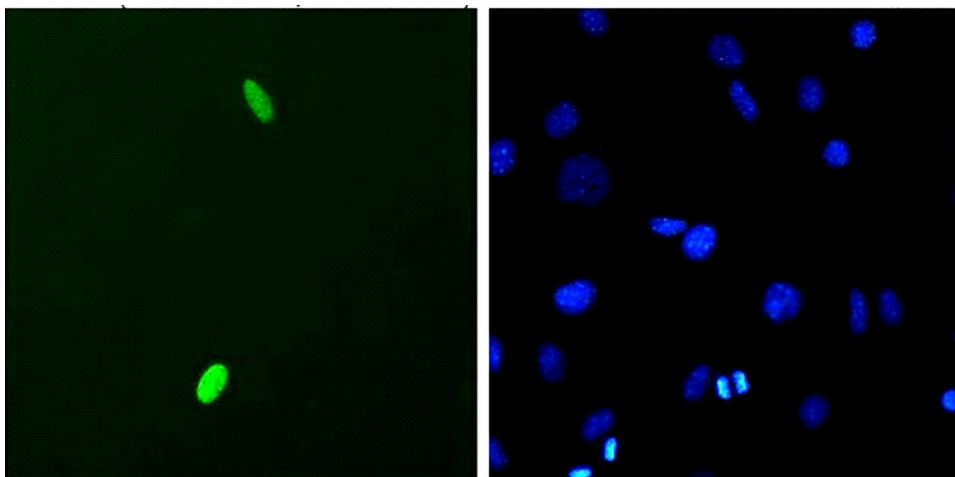
Scientific Background

DUX4, or double homeobox4, is a human protein that is a transcriptional activator of paired-like homeodomain transcription factor 1 (1). Clinically it is a facioscapulohumeral muscular dystrophy candidate gene that appears to have a toxic gain of function (2-4). In FSHD individuals, the expression of the full-length DUX4 transcript is not completely suppressed in skeletal muscle and possibly other differentiated tissues (5).

References

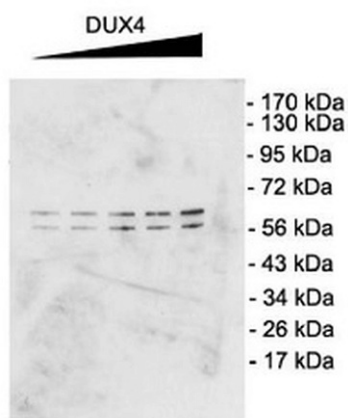
1. Entrez Gene: Dux4 Double Homeobox, 4
2. Dixit M., et al., (2007) Proc. Natl Acad Sci. USA. 104(46): 18157-18162.
3. Kowaljow V., et al. (2007) Neuromuscl Disord. 17(8): 611-623.
4. Lemmers R., et al. (2010) Science Express. 329(5999): 1650-1653.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-DUX4 Monoclonal Antibody, Clone P2B1 (SMC-192). Tissue: C2C12 myoblast cells. Species: Mouse. Primary Antibody: Mouse Anti-DUX4 Monoclonal Antibody (SMC-192) at 1:1000. Secondary Antibody: FITC Goat Anti-Mouse (green). Counterstain: DAPI (blue) nuclear stain.

P2G4 anti-DUX4 mouse monoclonal



Western Blot analysis of Mouse C2C12 cell lysate showing detection of DUX4 protein using Mouse Anti-DUX4 Monoclonal Antibody, Clone P2B1 (SMC-192). Primary Antibody: Mouse Anti-DUX4 Monoclonal Antibody (SMC-192) at 1:1000. Cells transfected with pCS2+DUX4 which, contains an additional upstream start site.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.