



Datasheet for ABIN6655475 anti-DUX4 antibody (C-Term)



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2 Images

Overview

Quantity:	100 µg
Target:	DUX4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DUX4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: DUX4 Antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to the C-terminal region of human DUX4 protein. Immunogen Type: Peptide
Clone:	P2B1
Isotype:	IgG1
Purification:	Anti-DUX4 Antibody was purified by Protein G chromatography. This monoclonal antibody is specific for human DUX4 protein. A BLAST analysis was used to suggest cross-reactivity with DUX4 from human based on 100% homology with the immunizing sequence. It does not cross react with DUX4c. Cross-reactivity with DUX4 from other sources has not been determined. Transcription Factor research.

Target Details

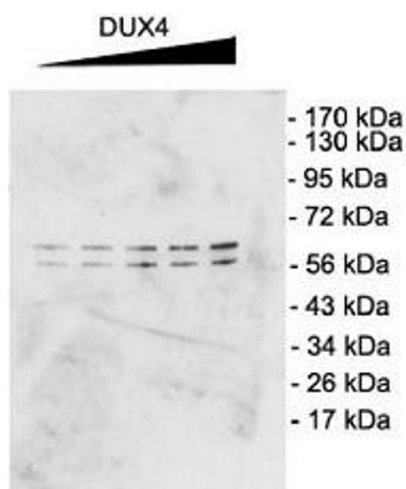
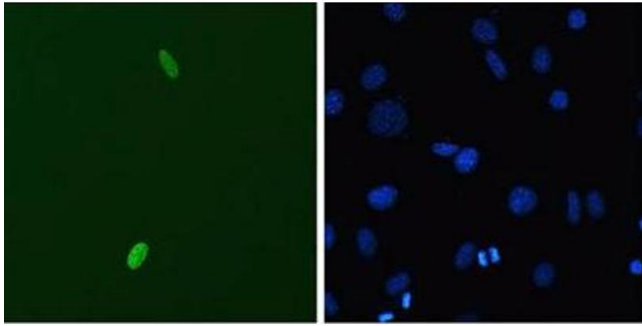
Target:	DUX4
Alternative Name:	DUX4 (DUX4 Products)
Background:	<p>Synonyms: mouse anti-DUX4 Antibody, double homeobox 4, DUX4, Double homeobox protein 4-like protein, DUX4L2, DUX4L3, DUX4L5, DUX4L6, DUX4L7</p> <p>Background: DUX4, or double homeobox4, is a human protein that is a transcriptional activator of paired-like homeodomain transcription factor 1. Clinically it is a facioscapulohumeral muscular dystrophy candidate gene that appears to have a toxic gain of function. In FSHD individuals, the expression of the full-length DUX4 transcript is not completely suppressed in skeletal muscle and possibly other differentiated tissues.</p> <p>Gene Name: DUX2</p>
Gene ID:	22947
NCBI Accession:	NP_149418
UniProt:	F5GZ66

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: User Optimized</p> <p>Application Note: Anti-DUX4 Antibody is suitable for use in WB, IF, and IHC. Specific conditions for reactivity should be optimized by the end user.</p> <p>Western Blot Dilution: 1:1000</p> <p>IF Microscopy Dilution: User Optimized</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p>
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.



Immunofluorescence

Image 1. DUX4 Immunofluorescence. Immunofluorescence Microscopy of Mouse anti-DUX4 antibody. Tissue: C2C12 myoblasts. Fixation: 0.5% PFA. Antigen retrieval: pCS2+DUX4. Primary antibody: DUX4 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: DUX4 is cytoplasmic. Staining: DUX4 as green fluorescent signal with DAPI (blue) nuclear counterstain.

Western Blotting

Image 2. DUX4 Western Blot. Western Blot of Mouse anti-DUX4 antibody. Lane 1-5: C2C12 cells transfected with pCS2+DUX4. Load: 35 µg per lane. Primary antibody: DUX4 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 51.1 kDa, ~65,56 kDa for DUX4. Other band(s): none