Mouse anti-Human DUX4 Monoclonal Antibody | anti-DUX4L1 antibody

DUX4 Antibody: ATTO 390

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103118	**Mouse**	**Human**	**Immunohistochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

DUX4; Monoclonal Antibody; DUX4 Antibody: ATTO 390; Double homeobox 4; Double homeobox 10; DUX10; Double homeobox protein 4/10; anti-DUX4L1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	P2B1
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	485
Applicable Applications for anti-DUX4L1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)
Conjugate	ATTO 390
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

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

ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-DUX4 Monoclonal Antibody, Clone P2B1. Tissue: C2C12 myoblast cells. Species: Mouse. Primary Antibody: Mouse Anti-DUX4 Monoclonal Antibody at 1:1000. Secondary Antibody: FITC Goat Anti-Mouse (green). Counterstain: DAPI (blue) nuclear stain. Cells transfected with pCS2+DUX4.

ADDITIONAL INFORMATION

Related Product Information for anti-DUX4L1 antibody	**Background Info:** This antibody recognizes human DUX4. It does not cross-react with DUX4c. **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).

Product Categories/Family for anti-DUX4L1 antibody	Cell Signaling
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. 5. Snider L., et al. (2010) PLoS Genetics. 6:1-14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194272172
NCBI GeneID	22947
NCBI Accession #	NP_149418.3
NCBI GenBank Nucleotide #	NM_033178.2
UniProt Accession #	F5GZ66
Molecular Weight	51,090 Da
NCBI Official Full Name	double homeobox protein 4
NCBI Official Synonym Full Names	double homeobox 4 like 1
NCBI Official Symbol	DUX4L1
NCBI Official Synonym Symbols	DUX4; DUX10
UniProt Protein Name	Double homeobox protein 4
UniProt Gene Name	**DUX4L2**
UniProt Synonym Gene Names	DUX4; DUX4L3; DUX4L5; DUX4L6; DUX4L7
UniProt Entry Name	F5GZ66_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/dux4-antibody-clone-p2b1-immunohistochemistry-immunofluorescence-western-blot-elisa/103118