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

DUX4 Antibody: FITC

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA103259** | **Mouse** | **Human** | **Immunohistochemistry, Immunofluorescence, Western Blot** |

## PRODUCT SYNONYMS

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

## PRODUCT SPECIFICATIONS

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|---|---|
| **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** | FITC |
| **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

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

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| **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

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| **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/103259