# DUX4 monoclonal antibody, clone P2B1 (FITC)

Catalog # MAB11454 Size 100 ug

### Applications

#### Application Data with Unconjugated Antibody

Immunofluorescence

Immunofluorescent staining of C2C12 cells transfected pCS2+DUX4 with DUX4 monoclonal antibody, clone P2B1 (Cat # MAB11442) at 10 ug/mL (left). Counter-stained with DAPI for nuclei (right).

#### Application Data with Unconjugated Antibody

Western Blot (Transfected lysate)

Western blot analysis of C2C12 cells transfected with pCS2+DUX4 which contains an additional upstream start site with DUX4 monoclonal antibody, clone P2B1 (Cat # MAB11442).

Specification	
Product Description	Mouse monoclonal antibody raised against recombinant partial DUX4.
Immunogen	Recombinant GST fusion protein corresponding to a 76 amino acid fragment at C-terminus of human DUX4.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes human DUX4. It does not cross-react with DUX4c.
Form	Liquid
Conjugation	FITC

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## **Product Information**

Purification	Protein G purification
lsotype	lgG1
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	Application Data with Unconjugated Antibody Immunofluorescence Immunofluorescent staining of C2C12 cells transfected pCS2+DUX4 with DUX4 monoclonal antibod y, clone P2B1 (Cat # MAB11442) at 10 ug/mL (left). Counter-stained with DAPI for nuclei (right). Western Blot (Transfected lysate) Western blot analysis of C2C12 cells transfected with pCS2+DUX4 which contains an additional ups tream start site with DUX4 monoclonal antibody, clone P2B1 (Cat # MAB11442).

### Applications

- Western Blot (Transfected lysate)
- Immunohistochemistry
- Immunofluorescence

Gene Info — DUX4		
Entrez GenelD	22947	
Protein Accession#	<u>NP_149418.3</u>	
Gene Name	DUX4	
Gene Alias	DUX10	
Gene Description	double homeobox, 4	
Omim ID	<u>606009</u>	
Gene Ontology	Hyperlink	

<b>W</b> Abnova	Product Information
Gene Summary	This gene is located within a D4Z4 repeat array in the subtelomeric region of chromosome 4q. Th e D4Z4 repeat is polymorphic in length; a similar D4Z4 repeat array has been identified on chrom osome 10. Each D4Z4 repeat unit has an open reading frame (named DUX4) that contains two h omeoboxes; the repeat-array and ORF is conserved in other mammals. There was no evidence f or transcription from standard cDNA libraries however RTPCR and in-vitro expression experiment s indicate that the ORF is transcribed and the encoded protein has been reported to function as a transcriptional activator of paired-like homeodomain transcription factor 1 (PITX1; GeneID 5307). Contraction of the microsatellite repeat causes autosomal dominant facioscapulohumeral muscul ar dystrophy (FSHD). [provided by RefSeq
Other Designations	double homeobox protein 4 double homeobox protein DUX10
Other Designations	Contraction of the microsatellite repeat causes autosomal dominant facioscapulohumeral m ar dystrophy (FSHD). [provided by RefSeq

### Disease

• Muscular Dystrophy