

ARG55249
anti-DUX4 antibody [P4H2]Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [P4H2] recognizes DUX4
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Specificity	This antibody recognizes an epitope at the C-terminus of human DUX4. It does not cross-react with DUX4c.
Host	Mouse
Clonality	Monoclonal
Clone	P4H2
Isotype	IgG1
Target Name	DUX4
Species	Human
Immunogen	Synthetic peptide around 76 aa (C-terminus) of Human DUX4 with GST tag.
Conjugation	Un-conjugated
Alternate Names	Double homeobox protein 10; Double homeobox protein 4; DUX4L

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:10000
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	WB	1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human testis lysate.	

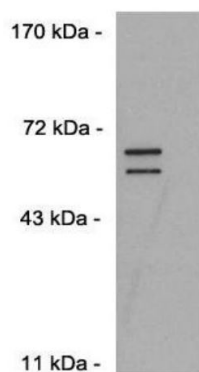
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4).
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

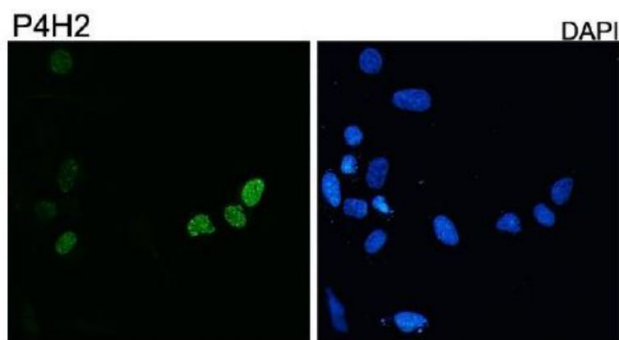
Database links	GeneID: 100288687 Human Swiss-port # Q9UBX2 Human
Gene Symbol	DUX4
Gene Full Name	double homeobox 4
Background	This gene is located within a D4Z4 repeat array in the subtelomeric region of chromosome 4q. The D4Z4 repeat is polymorphic in length; a similar D4Z4 repeat array has been identified on chromosome 10. Each D4Z4 repeat unit has an open reading frame (named DUX4) that encodes two homeoboxes; the repeat-array and ORF is conserved in other mammals. 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 macrosatellite repeat causes autosomal dominant facioscapulohumeral muscular dystrophy (FSHD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Function	Involved in transcriptional regulation. May regulate microRNA (miRNA) expression. [UniProt]
Research Area	Developmental Biology antibody
Calculated Mw	45 kDa

Images



ARG55249 anti-DUX4 antibody [P4H2] WB image

Western blot: C2C12 cells transfected with pCS2-DUX4 stained with ARG55249 anti-DUX4 antibody [P4H2] at 1:10000 dilution. There is a doublet because the expression construct contains an upstream alternate translation start codon. The lower band is the canonical size for DUX4.



ARG55249 anti-DUX4 antibody [P4H2] ICC/IF image

Immunofluorescence: Rhabdomyosarcoma cell line RD transfected with pCS2-DUX4, stained with ARG55249 anti-DUX4 antibody [P4H2] (green) at 1:10000 dilution. Cells were counterstained with DAPI (blue) for nuclei.