

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DUX4 in direct ELISAs and Western blots.
Source	Monoclonal Rabbit IgG Clone # 2142A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Human DUX4 synthetic peptide
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Human Double homeobox 4 (aka DUX4) is a protein encoded by the DUX4 gene. This gene is located within a D4Z4 repeat array in chromosome 4q35. Each D4Z4 repeat unit has an open reading frame, DUX4, that contains two homeoboxes. Unregulated expression of DUX4 in muscle cells is the cause of facioscapulohumeral muscular dystrophy (FSHD), a common form of muscular dystrophy in adults that is one of the most prevalent genetic diseases of muscle.

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