

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MyoD in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 474515
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MyoD Glu77-Gly215 Accession # P15172
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Immunocytochemistry 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

MyoD (myoblast determination protein 1), also called Myf-3 (myogenic factor 3) is an ~44 kDa nuclear protein in the MyoD family of muscle-specific bHLH transcription factors. MyoD family members heterodimerize with E proteins and cooperate with MEF2 family transcription factors to regulate expression of skeletal muscle-specific genes. MyoD is essential for skeletal muscle differentiation. Acetylation at lysines 99, 102 and 104 further regulates its activity. Human MyoD shares 96% amino acid identity with mouse and rat MyoD over the sequence used as the immunogen.

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