Human MyoD Antibody

Monoclonal Mouse IgG_{2A} Clone # 474515

Catalog Number: MAB5966

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	*E. coli*-derived recombinant human MyoD Glu77-Gly215 Accession # P15172
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

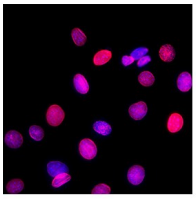
APPLICATIONS

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.*

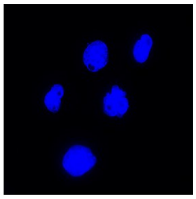
	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	fixed C2C12 mouse myoblast cell line (Positive) and absent in RD cells (Negative)

DATA

Immunocytochemistry



C2C12 (Positive) cells



RD (Negative) cells

Detection of MyoD in C2C12 Mouse Cell Line and Rd. MyoD was detected in fixed C2C12 mouse myoblast cell line (Positive) and absent in RD cells (Negative) using Mouse Anti-Human MyoD Monoclonal Antibody (Catalog # MAB5966) at 25 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the nucleus. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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