

Recombinant Human MYOD1, His-tagged

Cat. No. MYOD1-165H Lot. No. (See product label)

SPECIFICATION

Product Overview The protein was expressed as 6*his-tagged fusion protein by E.Coli and purified by Ni-sepharose. Expression Vector: PET28a.

Species Human

Source E.coli

Description MyoD1 is not detected in normal adult tissue, but is highly expressed in the tumor cell nuclei of rhabdomyosarcomas. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilm? tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewing? sarcomas and alveolar soft part sarcomas.

AA Sequence 0-232aa

Storage The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.

Storage Buffer The purified protein was resolved in 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.0) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name [MYOD1 myogenic differentiation 1 \[Homo sapiens \]](#)

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Official Symbol	MYOD1
Synonyms	MYOD1; myogenic differentiation 1; MYF3, myogenic factor 3; myoblast determination protein 1; bHLHc1; MYOD; PUM; myf-3; myogenic factor 3; class C basic helix-loop-helix protein 1; MYF3;
Gene ID	4654
mRNA Refseq	NM_002478
Protein Refseq	NP_002469
MIM	159970
UniProt ID	P15172
Chromosome Location	11p15
Pathway	C-MYB transcription factor network, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem;
Function	DNA binding; E-box binding; enzyme binding; protein binding; protein heterodimerization activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription coactivator activity; transcription factor binding; ubiquitin protein ligase binding;

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