Anti-MyoD

Cat #: HM1232
Rabbit polyclonal IgG
0.2 μg/μl, store at 4 °C

For research use only

BACKGROUND
MyoD belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. Other myogenic factors include myogenin, Myf-5 and Myf-6 (also designated MRF-4 or herculin). They play an important role in the regulation of muscle cell differentiation, and are essential for repair of damaged tissue. It activates its own transcription which may stabilize commitment to myogenesis. Most muscle cells express either MyoD or Myf-5 in the committed state, but when induced to differentiate, all turn on expression of myogenin. MyoD forms heterodimers with other bHLH proteins and with the E family proteins , which include E2A, IF2 and HEB. MyoD-E heterodimers bind to consensus (CANNTG) E box target sites that are functionally important elements in the upstream regulatory sequences of many muscle-specific terminal differentiation genes.

SPECIFICITY
This antibody reacts with MyoD of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry; non cross-reactive with myogenin, Myf-5, Myf-6 or other muscle-specific transcription factors.

Molecular Weight of MyoD: 38 kDa. Western blotting positive controls: L8 cell lysate.

IMMUNOGEN
A full-length recombinant MyoD protein.

STORAGE
This antibody is stable for 12 months when stored at 2-8°C.

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