



myogenin (1-225): sc-4081

BACKGROUND

Differentiation of myogenic cells is regulated by multiple positively and negatively acting factors. One well-characterized family of helix-loop-helix (HLH) proteins known to play an important role in the regulation of muscle cell development includes Myo D, myogenin, Myf-5 and Myf-6 (also designated MRF-4 or herculin). Of interest, most muscle cells express either Myo D or Myf-5 in the committed state, but when induced to differentiate, all turn on expression of myogenin. Myo D transcription factors form heterodimers with products of a more widely expressed family of bHLH genes, the E family, which consists of at least three distinct genes: E2A, IF2 and HEB. Myo D-E heterodimers bind avidly to consensus (CANNTG) E box target sites that are functionally important elements in the upstream regulatory sequences of many muscle-specific terminal differentiation genes.

REFERENCES

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SOURCE

myogenin (1-225) is expressed in *E. coli* as a 60 kDa tagged fusion protein corresponding to amino acids 1-225 of the full length myogenin protein of rat origin.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

myogenin (1-225) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 50 ug of purified protein in PBS containing 5mM DTT and 50% glycerol.

Available as a Western blotting control; 10 µg in 0.1 ml SDS-PAGE loading buffer, myogenin (1-225): sc-4081 WB.

APPLICATIONS

myogenin (1-225) is suitable as a Western blotting control for sc-576.