

MyoD1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12646c**Specification**

MyoD1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P15172](#)**MyoD1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 4654**Other Names**

Myoblast determination protein 1, Class C basic helix-loop-helix protein 1, bHLHc1, Myogenic factor 3, Myf-3, MYOD1, BHLHC1, MYF3, MYOD

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MyoD1 Antibody (Center) Blocking peptide - Protein Information**Name** MYOD1**Synonyms** BHLHC1, MYF3, MYOD**Function**

Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation. Together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins (By similarity).

Cellular Location

Nucleus.

MyoD1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MyoD1 Antibody (Center) Blocking peptide - Images

MyoD1 Antibody (Center) Blocking peptide - Background

This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis.

MyoD1 Antibody (Center) Blocking peptide - References

Xynos, A., et al. Stem Cells 28(5):965-973(2010) Stuelsatz, P., et al. J. Biol. Chem. 285(17):12670-12683(2010) Hiraoka, S., et al. Hum. Pathol. 41(1):38-47(2010) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Yang, Z., et al. Genes Dev. 23(6):694-707(2009)