

Product datasheet

HsMyoD1 ChIP primer Exon 1 (Reverse) ab83601

Overview

Product name	HsMyoD1 ChIP primer Exon 1 (Reverse)
General notes	Accession number: NM_002478. The HsMYOD1 primers and probe can be used to quantify a control locus in chromatin immunoprecipitation (ChIP) assays with chromatin prepared from human cells. MYOD1 (Myoblast determination protein 1) is involved in muscle development. The primers and probe are located in exon 1. In most cell types MYOD1 is enriched with histone modifications associated with silencing (e.g. Histone H3 K27 di methylation, see image with ab24684). Whereas it shows low levels of histone modifications associated with active gene transcription such as Histone H3 K9 acetylation (see image with ab4441).
Tested applications	Suitable for: Real Time PCR

Properties

Form	Liquid
Storage instructions	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituents: ddH2O
Function	Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Post-translational modifications	Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function. Ubiquitinated on the N-terminus; which is required for proteasomal degradation.
Cellular localization	Nucleus.

Applications

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The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Real Time PCR		Use at an assay dependent concentration. Suitable for the analysis of chromatin immunoprecipitated DNA using Taqman [®] real time PCR. Quantity provided for 200 reactions. Please see the protocol page for the instructions for this product.

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