

MyoD (Acetyl Lys99/102) Rabbit pAb

CatalogNo: YK0160

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 69kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human MyoD (Acetyl Lys99/K102)

Specificity This antibody detects endogenous levels of MyoD only when acetylated at Ser99 or Lys102 and dually acetylated at two sites. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): kACkR

Target Information

Gene name MYOD1 BHLHC1 MYF3 MYOD

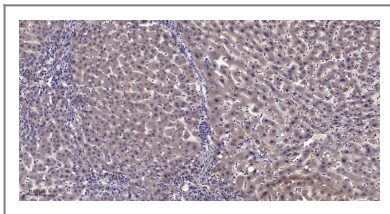
Protein Name MyoD (Acetyl Lys99/K102)

Organism	Gene ID	UniProt ID
Human	4654;	P15172;
Mouse	17927;	P10085;
Rat	337868;	Q02346;

Cellular Localization Nucleus.

Function 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. ,online information:MyoD entry ,PTM:Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely , its deacetylation by SIRT1 inhibits its function. ,PTM:Ubiquitinated on the N-terminus; which is required for proteasomal degradation. ,similarity:Contains 1 basic helix-loop-helix (bHLH) domain. ,subunit:Efficient DNA binding requires dimerization with another bHLH protein. Seems to form active heterodimers with ITF-2. Interacts with SUV39H1. ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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