

## MyoD (Phospho Ser200) Rabbit pAb

CatalogNo: YP0312

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 34kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:5000****IF 1:50-200**

### 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.

### Basic Information

**Clonality**

Polyclonal

### Immunogen Information

**Immunogen**

The antiserum was produced against synthesized peptide derived from human MYOD around the phosphorylation site of Ser200. AA range: 171-220

**Specificity** Phospho-MyoD (S200) Polyclonal Antibody detects endogenous levels of MyoD protein only when phosphorylated at S200. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ASsPR

## Target Information

**Gene name** MYOD1;BHLHC1;MYF3;MYOD

**Protein Name** Myoblast determination protein 1

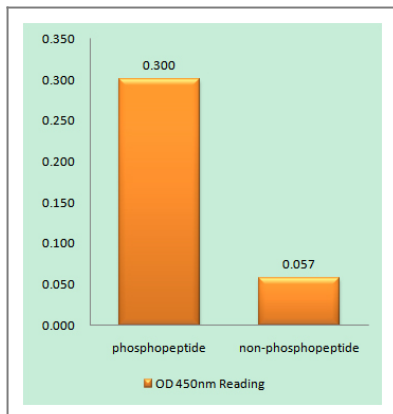
Organism	Gene ID	UniProt ID
Human	<a href="#">4654;</a>	<a href="#">P15172;</a>
Mouse	<a href="#">17927;</a>	<a href="#">P10085;</a>
Rat	<a href="#">337868;</a>	<a href="#">Q02346;</a>

**Cellular Localization** Nucleus.

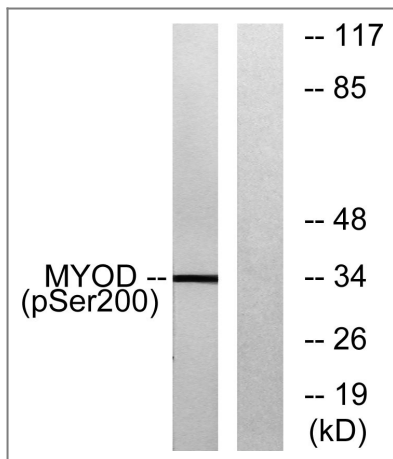
**Tissue specificity** Muscle,Skeletal muscle,

**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.,

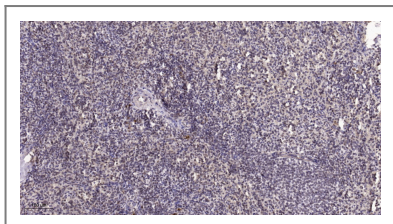
## Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MYOD (Phospho-Ser200) Antibody



Western blot analysis of lysates from Jurkat cells treated with Ca<sup>+</sup> 40nM 30', using MYOD (Phospho-Ser200) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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**MyoD (Phospho Ser200) Rabbit pAb**

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