

**MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone SPM427 ]**  
**Catalog # AH10617**

**Specification**

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**MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - Product Information**

Application	,14,3,4,
Primary Accession	<a href="#">P15172</a>
Other Accession	<a href="#">4654</a> , <a href="#">181768</a>
Reactivity	Human, Mouse, Rat, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	45kDa KDa

**MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - 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**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - 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**

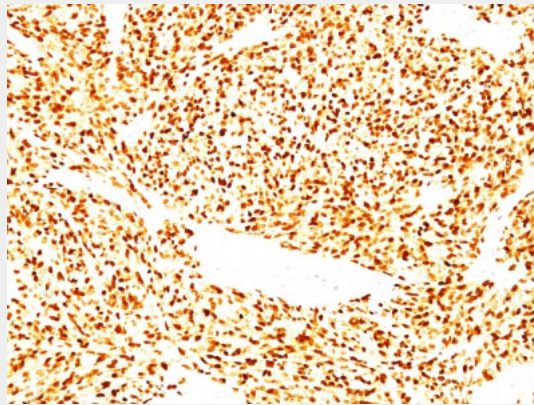
Nucleus.

#### **MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - Images**



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with MyoD1 Monoclonal Antibody (SPM427)

#### **MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - Background**

Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this MAb maps between amino acid 180-189 in the C-terminal of mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. Antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues. MyoD1 is not detected in normal adult tissue, but is highly expressed in the tumor cell nuclei of rhabdomyosarcomas. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilms' tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewing's sarcomas and alveolar soft part sarcomas.

#### **MyoD1 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide - References**

Thulasi R et. al. Cell Growth and Differentiation, 1996, 7(4):531-41. | Wesche WA et. al. American Journal of Surgical Pathology, 1995, 19(3):261-9. | Parham DM et. al. Acta Neuropathologica, 1994, 87:605-11