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

Specification

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

Application	**,14,3,4,**
Primary Accession	P15172
Other Accession	4654, 181768
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).

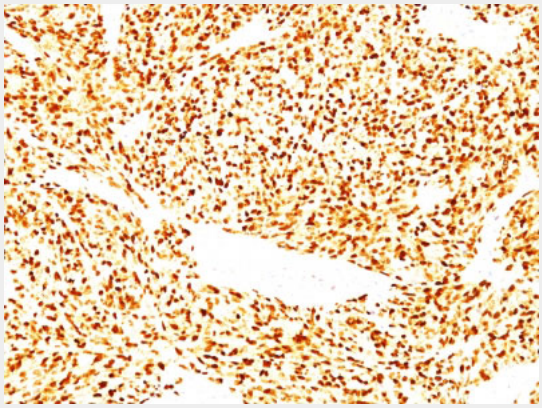
Cellular Location
Nucleus.

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 Cytomety
- 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 Wilmā€™s tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewingā€™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