

# Product Datasheet

## MyoD Antibody (SPM427)

### NBP2-32882-0.1mg

Unit Size: 0.1 mg

Store at 4C.

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 3

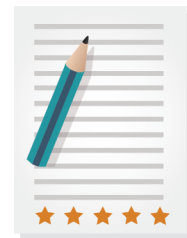
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Updated 10/23/2024 v.20.1

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**NBP2-32882-0.1mg**

MyoD Antibody (SPM427)

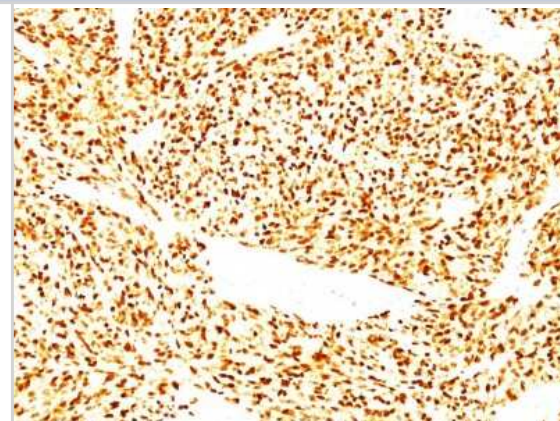
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SPM427
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	45 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0 mg/ml. (NBP2-34772)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4654
Gene Symbol	MYOD1
Species	Human, Mouse, Rat, Chicken
Marker	Rhabdomyosarcoma Marker
Specificity/Sensitivity	Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this monoclonal antibody 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 sarcomas and alveolar soft part sarcomas.
Immunogen	Recombinant MyoD of Mouse origin with an epitope mapping to amino acids 180-189. (Uniprot: P15172)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Flow (Intracellular)
Application Notes	Use in WB reported in scientific literature (PMID:34573307) Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues is enhanced by heating tissue sections in 1mM EDTA Buffer, pH 7.5-8.5, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

Immunohistochemistry-Paraffin: MyoD Antibody (SPM427) [NBP2-32882] - Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with MyoD Antibody (SPM427).



## Publications

Dong X, Cheng Y, Qiao L et al. Male-Biased gga-miR-2954 Regulates Myoblast Proliferation and Differentiation of Chicken Embryos by Targeting YY1 Genes 2021-08-27 [PMID: 34573307] (WB, Chicken)

Song R, Zhao S, Xu Y Et al. MRTF-A regulates myoblast commitment to differentiation by targeting PAX7 during muscle regeneration Journal of cellular and molecular medicine 2021-08-04 [PMID: 34347392] (WB, Mouse)

Ocasio J, Babcock B, Malawsky D, et al. scRNA-seq in medulloblastoma shows cellular heterogeneity and lineage expansion support resistance to SHH inhibitor therapy Nat Commun 2019-12-20 [PMID: 31863004] (IF/IHC, Mouse)



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### **Products Related to NBP2-32882-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00004654-Q01-10ug	Recombinant Human MyoD GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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