

Product Datasheet

MyoD Antibody (MYOD1/3418R) - Azide and BSA Free NBP3-08543

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP3-08543

MyoD Antibody (MYOD1/3418R) - Azide and BSA Free

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MYOD1/3418R
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	10 mM PBS
Target Molecular Weight	45 kDa

Product Description	
Description	1.0 mg/ml of antibody purified by Protein A Column. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP3-07404). Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Rabbit
Gene ID	4654
Gene Symbol	MYOD1
Species	Human
Marker	Rhabdomyosarcoma Marker
Specificity/Sensitivity	MyoD1, one of the MyoD family of myogenic helix-loop-helix transcription factors, combined with myogenin, plays a role in coordinating the myogenic differentiation pathway from the determination of mesodermal precursors into myoblasts, the differentiation of myoblasts into myotubes, and finally the maturation of myotubes into skeletal myofibers. Normal mature skeletal muscle does not express MyoD1 protein. MyoD1 is expressed in myoblasts before differentiation while myogenin has post-differentiation functions. Anti-MyoD1 immunostaining identifies cells committed to myogenesis in their earliest phase, thus, it is a better biomarker for less differentiated Rhabdomyosarcomas (RMS). RMS are the most frequent malignant soft tissue neoplasms of childhood. While better differentiated RMS have cross-striations or rhabdomyoblasts that allow for a confident morphologic diagnosis, less differentiated RMS resemble other small blue round-cell tumors. Studies suggest, anti-MyoD1 may be used together with anti-Myogenin and anti-Desmin as a panel of markers since any RMS is virtually never negative for all three markers simultaneously.
Immunogen	Recombinant fragment (around aa1-100) of human MyoD protein (exact sequence is proprietary) (Uniprot: P15172)

Product Application Details	
Applications	Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry-Paraffin 1-2 ug/ml

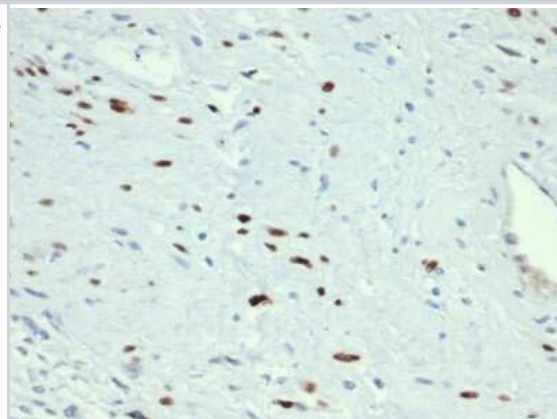


Application Notes

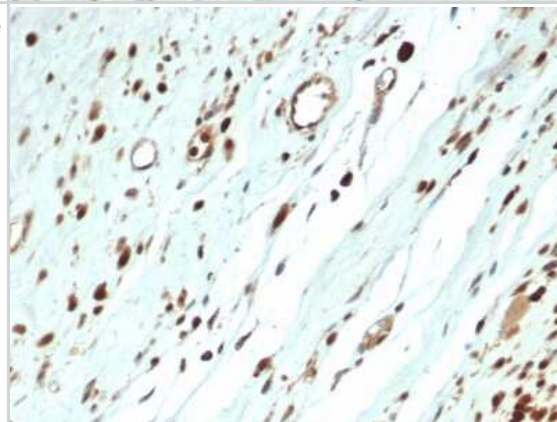
Immunohistochemistry Formalin-fixed: 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

Immunohistochemistry-Paraffin: MyoD Antibody (MYOD1/3418R) - Azide and BSA Free [NBP3-08543] - Formalin-fixed, paraffin-embedded human rhabdomyosarcoma stained with MyoD Recombinant Rabbit Monoclonal Antibody (MYOD1/3418R). HIER: Tris/EDTA pH9.0; 95C/45min. 1 Ab: 2ug/ml in PBS:30min. 2 Ab: HRP-Poly:30min. DAB:5min



Immunohistochemistry-Paraffin: MyoD Antibody (MYOD1/3418R) - Azide and BSA Free [NBP3-08543] - Formalin-fixed, paraffin-embedded human rhabdomyosarcoma stained with MyoD Recombinant Rabbit Monoclonal Antibody (MYOD1/3418R). HIER: Tris/EDTA pH9.0; 95C/45min. 1 Ab: 2ug/ml in PBS:30min. 2 Ab: HRP-Poly:30min. DAB:5min.





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Products Related to NBP3-08543

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00004654-P01-2ug	Recombinant Human MyoD GST (N-Term) Protein

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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