Product Datasheet

MyoD Antibody (MYOD1/3418R) [Janelia Fluor® 585]
NBP3-08543JF585

Unit Size: 0.1 ml

Store at 4C in the dark.

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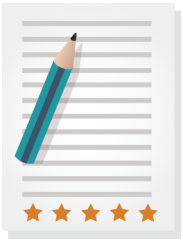

NBP3-08543JF585

MyoD Antibody (MYOD1/3418R) [Janelia Fluor® 585]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	MYOD1/3418R
Preservative	0.05% Sodium Azide
Isotype	IgG
Conjugate	Janelia Fluor 585
Purity	Protein A purified
Buffer	50mM Sodium Borate

Product Description	
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)
Notes	Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.

Product Application Details	
Applications	Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry-Paraffin
Application Notes	Optimal dilution of this antibody should be experimentally determined.

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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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