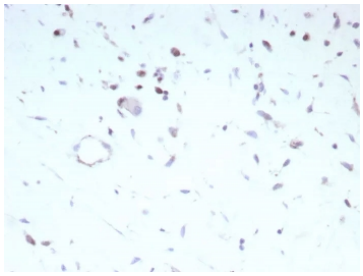
Recombinant Myoblast determination protein 1 Antibody / MyoD1 [clone MYOD1/9405R] (V5489)

Catalog No.	Formulation	Size
V5489-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5489-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5489SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

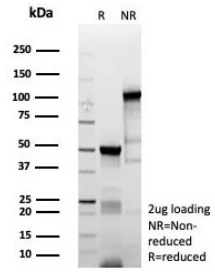
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MYOD1/9405R
Purity	Protein A/G affinity
UniProt	P15172
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant Myoblast determination protein 1 antibody is available for research use only.



IHC staining of FFPE human rhabdomyosarcoma tissue with recombinant Myoblast determination protein 1 antibody (clone MYOD1/9405R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Myoblast determination protein 1 antibody (clone MYOD1/9405R) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the recombinant Myoblast determination protein 1 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 1-100) of human MyoD1 protein was used as the immunogen for the recombinant Myoblast determination protein 1 antibody.

Storage

Aliquot the recombinant Myoblast determination protein 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com