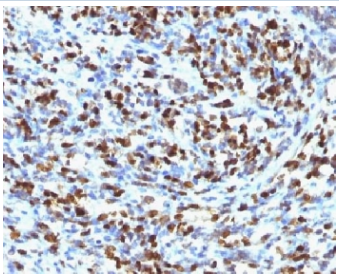
Myogenin Antibody [clone MGN185] (V2206)

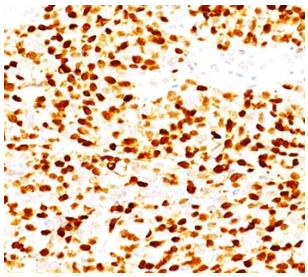
Catalog No.	Formulation	Size
V2206-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2206-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2206SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2206IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MGN185
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P15173
Gene ID	4656
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **Myogenin antibody** is available for research use only.



IHC testing of FFPE rhabdomyosarcoma stained with Myogenin antibody (clone MGN185).



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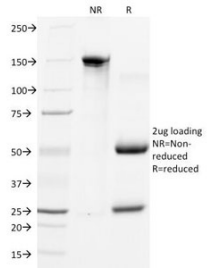

SDS-PAGE Analysis of Purified, BSA-Free Myogenin Antibody (clone MGN185). Confirmation of Integrity and Purity of the Antibody.

Description

Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). MyoD family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to enhancer sequences of muscle-specific genes. The regulatory domain of MyoD is approximately 70 amino acids in length and includes both a basic DNA binding motif and a bHLH dimerization motif. MyoD family members share about 80% amino acid homology in their bHLH motifs. Myogenin antibody labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Myogenin antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human myogenin recombinant protein was used as the immunogen for this antibody.

Storage

Store the Myogenin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

bHLHc3, cb553, Class C basic helix-loop-helix protein 3, Myf-4, MYF4, MYOG, Myogenic factor 4, Myogenin factor 4, myogenin antibody

References (1)