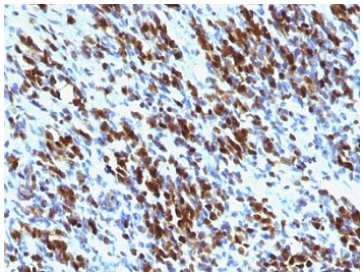
Myogenin Antibody Cocktail [clone MGN185 + F5D] (V3139)

Catalog No.	Formulation	Size
V3139-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3139-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3139SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3139IHC-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

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MGN185 + F5D
Purity	Protein G affinity chromatography
UniProt	P15173
Gene ID	4656
Localization	Nuclear
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Myogenin antibody cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Myogenin antibody cocktail (clones MGN185 + F5D). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.

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. Anti-myogenin 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 optimal dilution of the Myogenin antibody for each application should be determined by the researcher.

1. 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

Full length human recombinant protein (MGN185) and a partial rat recombinant protein (amino acid 30-224) (F5D) were used as the immunogens for this Myogenin antibody cocktail.

Storage

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

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