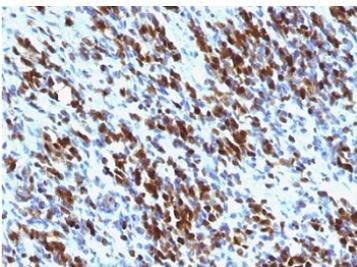


## Myogenin Antibody Cocktail [clone MGN185 + F5D] (V3139)

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](#)

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