

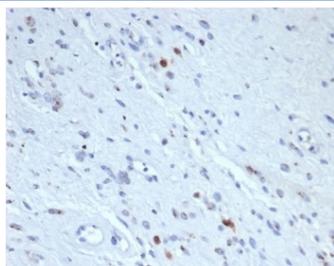
## Recombinant MYOG Antibody / Myogenin / Myf-4 [clone rMYOG/6297] (V9676)

Catalog No.	Formulation	Size
V9676-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9676-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9676SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

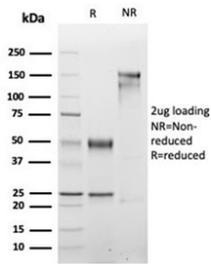
Recombinant **MOUSE MONOCLONAL**

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	rMYOG/6297
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P15173
<b>Localization</b>	Nucleus
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This recombinant MYOG antibody is available for research use only.



IHC staining of FFPE human rhabdomyosarcoma tissue with recombinant MYOG antibody (clone rMYOG/6297). 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 MYOG antibody (clone rMYOG/6297) as confirmation of integrity and purity.

## 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

Optimal dilution of the recombinant MYOG antibody should be determined by the researcher.

## Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant MYOG antibody.

## Storage

Aliquot the recombinant MYOG antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.