

### 36-1494: Monoclonal Antibody to Myogenin (Skeletal Muscle Marker)(Clone : SPM144)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	SPM144
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human, Mouse, Rat
<b>Gene :</b>	MYOG
<b>Gene ID :</b>	4656
<b>Uniprot ID :</b>	P15173
<b>Format :</b>	Purified
<b>Alternative Name :</b>	MYOG,BHLHC3,MYF4
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Human myogenin recombinant protein

#### Description

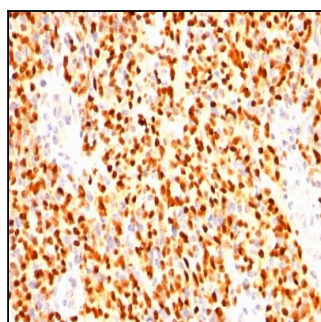
Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). MyoD family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to 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.

#### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Affinity Chromatography
<b>Content :</b>	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

#### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Myogenin Monoclonal Antibody (SPM144)