# **∗** abeomics

## 36-1493: Monoclonal Antibody to Myogenin (Skeletal Muscle Marker)(Clone : F5D)

Clonality :	Monoclonal
Clone Name :	F5D
Application :	ELISA,IHC
Reactivity :	Human, Mouse, Rat
Gene :	MYOG
Gene ID :	4656
Uniprot ID :	P15173
Format :	Purified
Alternative Name :	MYOG,BHLHC3,MYF4
Isotype :	Mouse IgG1, kappa
Immunogen Information	Rat myogenin peptide (aa 73-94) followed by Rat myogenin recombinant fragment (aa30-224) (Epitope aa138-158)

#### Description

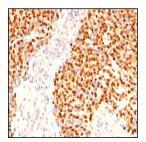
Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). MyoD family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to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

Amount : Purification :	100 μg Affinity Chromatography
Content :	100 $\mu g$ in 500 $\mu l$ PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	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**

ELISA (For coating, order Ab without BSA); 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&degC followed by cooling at RT for 20 minutes);



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Myogenin Monoclonal Antibody (F5D)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.