

**Mouse Anti-Myogenin (MyF4) [F5D]: MC0346, MC0346RTU7**

**Intended Use:** For Research Use Only

**Description:** Myogenic factors are transcription factors consisting of an amino acid-rich region and a helix-loop-helix (HLH) structure, which can promote muscle development and maintain muscle-specific gene expression by transactivation. Myogenin, one of the myogenic regulatory factors, plays a key role in determining the commitment and differentiation of primitive mesenchymal cells into skeletal muscle. The expression of Myogenin is restricted to cells of skeletal muscle origin, but it is not detected in adult skeletal muscles. It is therefore considered to be an extremely reliable and specific marker for diagnosing rhabdomyosarcomas.

**Specifications**

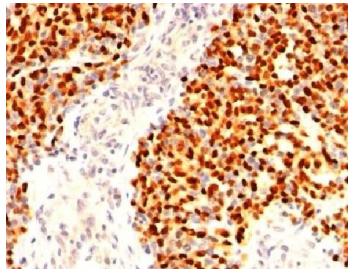
Clone: F5D  
Source: Mouse  
Reactivity: Human  
Isotype: IgG1  
Localization: Nucleus  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC  
Package:

Description	Catalog No.	Size
Myogenin (MyF4) Concentrated	MC0346	1 ml
Myogenin (MyF4) Prediluted	MC0346RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Tonsil, myeloma  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human rhabdomyosarcoma stained with anti-Myogenin using DAB

**References:**

1. The Expression of c-Myb Correlates with the Levels of Rhabdomyosarcoma-specific Marker Myogenin. Kaspar P, et al. Sci Rep. Oct 14;5:15090, 2015.
2. The Role of Immunohistochemistry in Rhabdomyosarcoma Diagnosis Using Tissue Microarray Technology and a Xenograft Model. Machado I, et al. Fetal Pediatr Pathol. 34(5):271-81, 2015.