

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

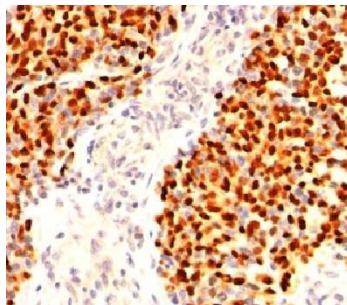
Clone:	F5D
Source:	Mouse
Isotype:	IgG1
Reactivity:	Human
Immunogen:	Recombinant protein containing rat myogenin aa 30-224
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

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

IHC Procedure*

Positive Control Tissue:	Skeletal muscle, rhabdomyosarcoma
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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. Evaluation of Myogenin and MyoD1 as Immunohistochemical Markers of Canine Rhabdomyosarcoma. Joanne L. Veterinary Pathology. Volume 58, Issue 3, May Pages 516-526, 2021.
2. Immunohistochemical Characterization of Sarcomas in Trp53+/- Haploinsufficient Mice. M. P. Jokinen, D. L. Morgan, et al., Toxicologic Pathology Volume 45, Issue 6, August Pages 774-785, 2017.
3. 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.
4. 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.

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Rev. B