

## Myogenin clone F5D

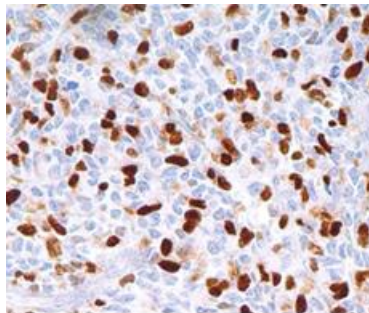
### Instructions for Use

#### Specification:

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 Wilm's tumor.

#### Availability:

Catalog No.	Contents	Volume
ILM2963-C01	Myogenin	0,1 ml concentrate
ILM2963-C05	Myogenin	0,5 ml concentrate
ILM2963-C1	Myogenin	1,0 ml concentrate



**Intended use:** For Research Use Only

**Reactivity:** Human, Mouse, Rat, Cat and Pig

**Clone:** F5D

**Species of origin:** Mouse

**Isotype:** IgG<sub>1</sub>/K

**Control Tissue:** Rhabdomyosarcoma, skeletal muscle

**Staining:** Nuclear

**Immunogen:** Rat Myogenin recombinant fragment containing amino acid 30-224

**Presentation:** Bioreactor Concentrate with 0.05% Azide

#### Application and suggested dilutions:

Pre-treatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of cryostat tissue sections (dilution 1:200-1:400)
- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:200-1:400)
- Western blotting (dilution 1:100-1:200)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

**References:**

- 1) Miller JB; J Cell Biol 190 Sep;111(3):1149-59
- 2) Wang NP et al.; Am J Pathol 1995 Dec;147(6):1799-810
- 3) Cui S et al.; Pathol Int 1999 Jan;49(1):62-8
- 4) Cessna MH et al. Am J Surg Pathol. Sep;25(9):1150-7
- 5) Furlong MA et al. Mod Pathol. 2001 Jun;14(6):595-603
- 6) Dias P et al. Am J Pathol. 2000 Feb;156(2):399-408