Myogenin Monoclonal Antibody (F5D), Alexa Fluor 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Rat
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	F5D
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1907433

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	5-20 µg/mL	
Immunofluorescence (IF)	✓	5-20 µg/mL	

Product Specific Information

Description: This F5D monoclonal antibody reacts with human, mouse, dog, and rat myogenin, a 34-kDa transcription factor. Expressed in skeletal and heart muscle, myogenin is a member of the MyoD family of basic-helix-loop-helix proteins, which also includes MyoD, Myf5, and MRF4. This transcription factor interacts with other helix-loop-helix proteins, which may or may not be muscle-specific. Myogenin plays a significant role in myogenic differentiation, even directing nonmuscle cells to the myogenic lineage. Transforming growth factor-beta (TGFb) and bone morphogenetic protein-2 (BMP2) inhibit myogenin transcriptional activity. Predominantly residing within the nucleus, the subcellular localization of myogenin has been shown to be dependent on differentiation status and cell density. For instance, trafficking of myogenin between the nucleus and cytoplasm has been reported during skeletal muscle differentiation to mediate transcription control.

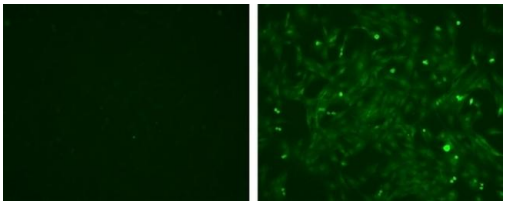
Applications Reported: This F5D antibody has been reported for use in immunocytochemistry.

Applications Tested: This F5D antibody has been tested by immunocytochemistry of the C2C12 cell line. This can be used at less than or equal to 5-20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Myogenin Monoclonal Antibody (F5D), Alexa Fluor 488, eBioscience™



Myogenin Antibody (53-5643-82) in ICC
Immunocytochemistry of fixed and permeabilized C2C12 cells using 5 µg/mL of Mouse IgG1 kappa Isotype Control Alexa Fluor® 488 (Product # 53-4714-80) (left) or Anti-Myogenin Alexa Fluor® 488 (right).