

MYOD Monoclonal Antibody (5.8A)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Artificial Control, Rat, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	5.8A
Conjugate	Unconjugated
Immunogen	Recombinant mouse MyoD.
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.02% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2282434

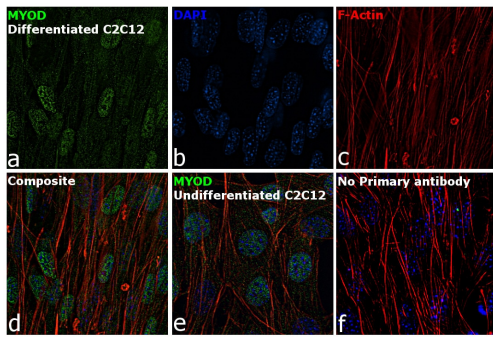
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	5 µg/mL	4 Publications
Immunofluorescence (IF)	5 µg/mL	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:10-1:500	1 Publication
Immunoprecipitation (IP)	1 µg/mL	-
Western Blot (WB)	1 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

The epitope of this antibody was mapped to a region within AA 180-189 of mouse MyoD.

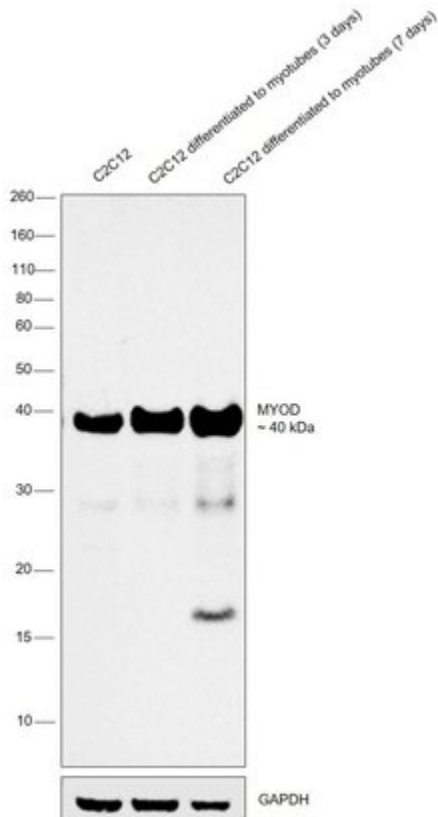
Suggested positive control: Rh-30.

Advanced Verification Data



MYOD Antibody (MA1-41017)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using MYOD Monoclonal Antibody (Product # MA5-27909) showed expression of MYOD in C2C12 differentiated to myotubes as compared to undifferentiated C2C12 cells. Relative expression validation info.



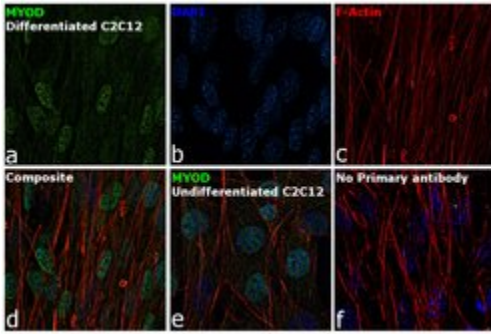
MYOD Antibody (MA1-41017)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cells lines tested owing to their inherent genetic constitution. Relative expression of MYOD was observed in C2C12 cells differentiated to myotubes (3 and 7 days) in comparison to undifferentiated C2C12 using Anti-MYOD Monoclonal Antibody (Product # MA1-41017) in Western Blot. Relative expression validation info.

Product Images For MYOD Monoclonal Antibody (5.8A)

MYOD Antibody (MA1-41017) in IF

Immunofluorescence analysis of MYOD was performed using 70% confluent log phase differentiated C2C12 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with MYOD monoclonal antibody (Product # MA1-41017) at 5ug/mL dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image. Panel e represents undifferentiated C2C12 cells. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (4)

Biomaterials

Synthetic niche to modulate regenerative potential of MSCs and enhance skeletal muscle regeneration.

"MA1-41017 was used in western blot to research modulation of regenerative potential of MSCs and enhancement of skeletal muscle regeneration by a synthetic niche"

Authors: Pumberger M, Qazi TH, Ehrentraut MC, Textor M, Kueper J, Stoltenburg-Didinger G, Winkler T, von Roth P, Reinke S, Borselli C, Perka C, Mooney DJ, Duda GN, Geißler S

Species
Not Applicable

Dilution
1:500

Year
2016

Experimental cell research

Roles of peroxisome proliferator-activated receptors delta and gamma in myoblast transdifferentiation.

"MA1-41017 was used in western blot to study the roles of PPARdelta and gamma in myoblast transdifferentiation"

Authors: Holst D, Luquet S, Kristiansen K, Grimaldi PA

Species
Mouse

Dilution
Not Cited

Year
2003

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Immunohistochemistry (2)

Stem cells (Dayton, Ohio)

CD13 regulates anchorage and differentiation of the skeletal muscle satellite stem cell population in ischemic injury.

"Published figure using MYOD monoclonal antibody (Product # MA1-41017) in Immunofluorescence"

Authors: Rahman MM, Ghosh M, Subramani J, Fong GH, Carlson ME, Shapiro LH

Species
Not Applicable

Dilution
Not Cited

Year
2014

Cancer genetics

Molecular characterization of an EWSR1-POU5F1 fusion associated with a t(6;22) in an undifferentiated soft tissue sarcoma.

"MA1-41017 was used in immunohistochemistry to characterize a clinical case of undifferentiated soft tissue sarcoma with chromosomal rearrangement and resultant EWSR1-POU5F1 fusion"

Authors: Deng FM, Galvan K, de la Roza G, Zhang S, Souid AK, Stein CK

Species
Human

Dilution
Not Cited

Year
2011

More applications with references on thermofisher.com

IHC (F) (1)

ICC (4)

IF (2)

Misc (1)

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