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Myogenin Rabbit mAb

Catalog No.: A29141 Recombinant

Basic Information

Observed MW
35 kDa/38 kDa

Calculated MW
25 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IF-P,IHC-P,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC81329

Background

Enables DNA-binding transcription activator activity, RNA polymerase II-specific; E-box binding activity; and chromatin DNA binding activity. Involved in several processes, including cellular response to estradiol stimulus; positive regulation of cell differentiation; and regulation of muscle adaptation. Acts upstream of or within several processes, including cellular response to lithium ion; cellular response to tumor necrosis factor; and skeletal muscle fiber development. Located in nucleus. Is expressed in several structures, including alimentary system; central nervous system; embryo mesenchyme; genitourinary system; and musculature. Orthologous to human MYOG (myogenin).

Recommended Dilutions

WB	1:2000 - 1:15000
IF/ICC	1:100 - 1:400
IF-P	1:100 - 1:400
IHC-P	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
17928

Swiss Prot
P12979

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
myo; MYF4; bHLHc3

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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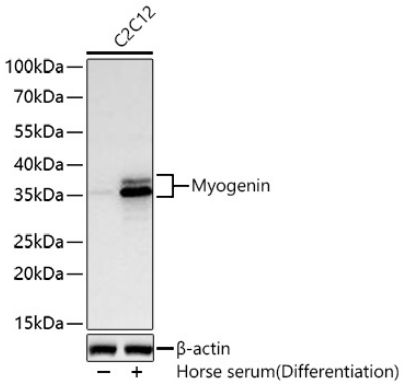
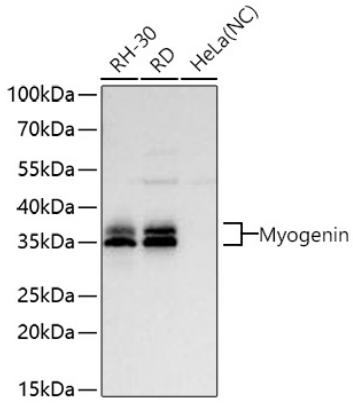
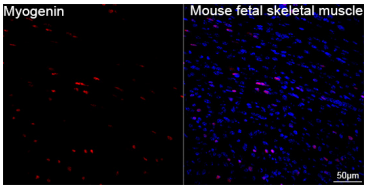
Validation Data



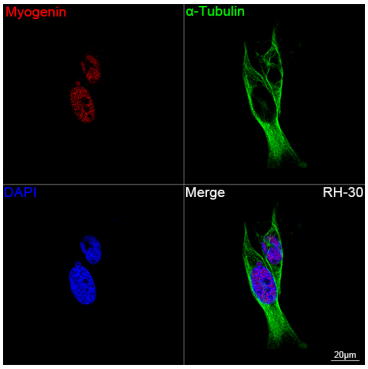
Western blot analysis of lysates from C2C12 cells using Myogenin Rabbit mAb (A29141) at 1:5000 dilution incubated overnight at 4℃. C2C12 cells were treated with horse serum(2%) at 37 °C for 3 days.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.



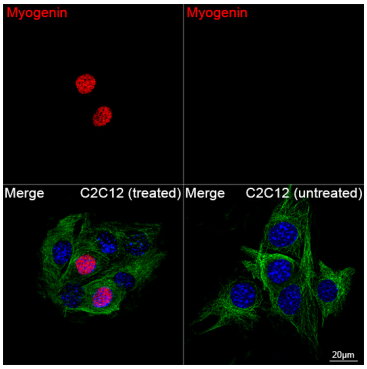
Western blot analysis of various lysates using Myogenin Rabbit mAb (A29141) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HeLa.
Exposure time: 10 s.



Confocal imaging of paraffin-embedded Mouse fetal skeletal muscle using Myogenin Rabbit mAb (A29141, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

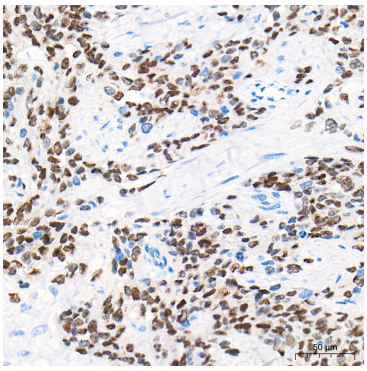


Confocal imaging of RH-30 cells using Myogenin Rabbit mAb (A29141, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

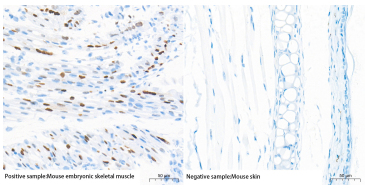


Confocal imaging of C2C12 cells (treated with 2% horse serum) and C2C12 cells (untreated) using Myogenin Rabbit mAb (A29141, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

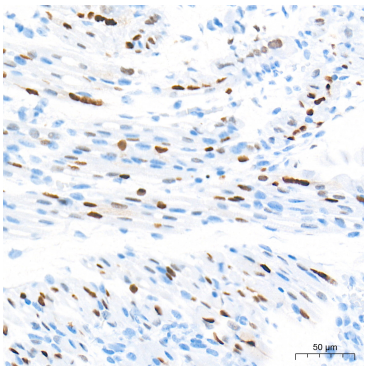
Validation Data



Immunohistochemistry analysis of paraffin-embedded Human rhabdomyosarcoma tissue using Myogenin Rabbit mAb (A29141) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse embryonic skeletal muscle tissue (left, Positive control) and Mouse skin tissue (right, Negative control), using Myogenin Rabbit mAb (A29141) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse embryonic skeletal muscle tissue using Myogenin Rabbit mAb (A29141) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.