

Anti-Myogenin Antibody [JE60-39]

HA721688



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-Fr
Molecular Wt:	Predicted band size: 25 kDa
Clone number:	JE60-39

Description: Myogenin, is a transcriptional activator encoded by the MYOG gene. Myogenin is a muscle-specific basic-helix-loop-helix (bHLH) transcription factor involved in the coordination of skeletal muscle development or myogenesis and repair. Myogenin is a member of the MyoD family of transcription factors, which also includes MyoD, Myf5, and MRF4. In mice, myogenin is essential for the development of functional skeletal muscle. Myogenin is required for the proper differentiation of most myogenic precursor cells during the process of myogenesis. When the DNA coding for myogenin was knocked out of the mouse genome, severe skeletal muscle defects were observed. Mice lacking both copies of myogenin (homozygous-null) suffer from perinatal lethality due to the lack of mature secondary skeletal muscle fibers throughout the body. In cell culture, myogenin can induce myogenesis in a variety of non-muscle cell types.

Immunogen: Synthetic peptide within Human Myogenin aa 1-50 / 224.

Positive control: Differentiated C2C12 cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: P15173 Human | P12979 Mouse | P20428 Rat

Recommended Dilutions:

WB	1:1,000
IHC-Fr	1:200

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

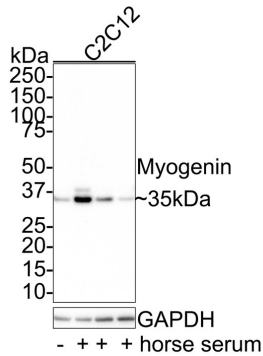
Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of Myogenin on different lysates with Rabbit anti-Myogenin antibody (HA721688) at 1/1,000 dilution.

Lane 1: Undifferentiated C2C12 whole cell lysate
 Lane 2: Differentiated C2C12 for 1 day whole cell lysate
 Lane 3: Differentiated C2C12 for 2 days whole cell lysate
 Lane 4: Differentiated C2C12 for 3 days whole cell lysate



Lysates/proteins at 20 µg/Lane.

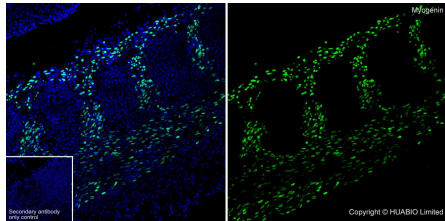
Predicted band size: 25 kDa
 Observed band size: 35 kDa

Exposure time: 4 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721688) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Fig2: Application: IHC-Fr



Species: Mouse

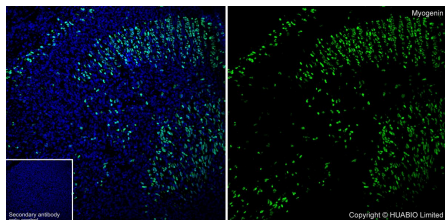
Site: embryo

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required

Fig3: Application: IHC-Fr



Species: Rat

Site: embryo

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Becker R et al. Myogenin controls via AKAP6 non-centrosomal microtubule-organizing center formation at the nuclear envelope. *Elife*. 2021 Oct
2. Khilji S et al. Dissecting myogenin-mediated retinoid X receptor signaling in myogenic differentiation. *Commun Biol*. 2020 Jun

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