

# Anti-Myf5 Antibody [JE38-56]

HA722400



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 28 kDa
<b>Clone number:</b>	JE38-56

**Description:** Myogenic factor 5 is a protein that in humans is encoded by the MYF5 gene. It is a protein with a key role in regulating muscle differentiation or myogenesis, specifically the development of skeletal muscle. Myf5 belongs to a family of proteins known as myogenic regulatory factors (MRFs). These basic helix loop helix transcription factors act sequentially in myogenic differentiation. MRF family members include Myf5, MyoD (Myf3), myogenin, and MRF4 (Myf6). This transcription factor is the earliest of all MRFs to be expressed in the embryo, where it is only markedly expressed for a few days (specifically around 8 days post-somite formation and lasting until day 14 post-somite in mice). It functions during that time to commit myogenic precursor cells to become skeletal muscle. In fact, its expression in proliferating myoblasts has led to its classification as a determination factor. Furthermore, Myf5 is a master regulator of muscle development, possessing the ability to induce a muscle phenotype upon its forced expression in fibroblastic cells.

**Immunogen:** Recombinant protein within Human Myf5 aa 181-255 / 255.

**Positive control:** L6 cell lysate, mouse skeletal muscle tissue lysate, rat skeletal muscle tissue lysate.

**Subcellular location:** Nucleus.

**Database links:** SwissProt: P24699 Mouse  
Entrez Gene: 299766 Rat

**Recommended Dilutions:**  
**WB** 1:1,000

**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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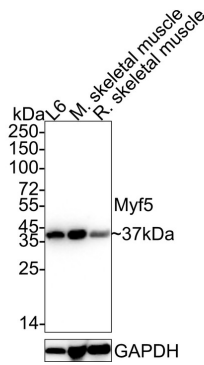
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## Images



**Fig1:** Western blot analysis of Myf5 on different lysates with Rabbit anti-Myf5 antibody (HA722400) at 1/1,000 dilution.

Lane 1: L6 cell lysate (20 µg/Lane)

Lane 2: Mouse skeletal muscle tissue lysate (40 µg/Lane)

Lane 3: Rat skeletal muscle tissue lysate (40 µg/Lane)

Predicted band size: 28 kDa

Observed band size: 37 kDa

Exposure time: 6 seconds; ECL: K1801;

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 (HA722400) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

## Background References

1. Maeng G et al. Humanized skeletal muscle in MYF5/MYOD/MYF6-null pig embryos. *Nat Biomed Eng.* 2021 Aug
2. Dong L et al. miR-9-5p promotes myogenic differentiation via the Dlx3/Myf5 axis. *PeerJ.* 2022 May

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