Data Sheet (Cat.No.TMAB-01193)

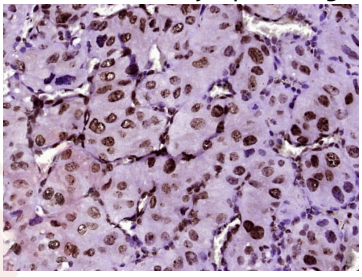
Anti-MYF5 Polyclonal Antibody

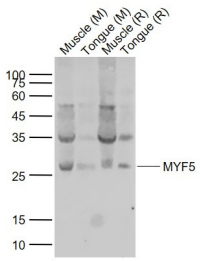
Product Details

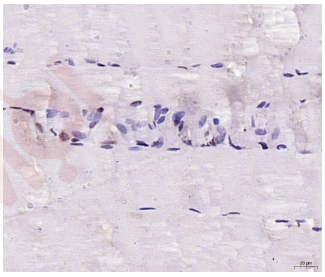
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 28 kDa. Actual: 28 kDa.
Purification:	Protein A purified

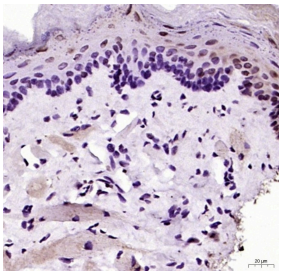
Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (mouse embryos tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MYF5) Polyclonal Antibody, Unconjugated (TMAB-01193) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 2. Sample: Lane 1: Muscle (Mouse) Lysate at 40 µg Lane 2: Tongue (Mouse) Lysate at 40 µg Lane 3: Muscle (Rat) Lysate at 40 µg Lane 4: Tongue (Rat) Lysate at 40 µg Primary: Anti-MYF5 (TMAB-01193) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28 kDa Observed band size: 28 kDa 3. Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MYF5) Polyclonal Antibody, Unconjugated (TMAB-01193) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded (Rat tongue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MYF5) Polyclonal Antibody, Unconjugated (TMAB-01193) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.









Application:	IF,IHC-Fr,IHC-P,WB
Recommended	IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MYF5
Antigen Species:	Human
Gene ID:	4617
Uniprot ID:	P13349
Synonyms:	bHLHc2;Class C basic helix loop helix protein 2;Class C basic helix-loop-helix protein 2; Myogenic factor 5;Myf-5
Biology Area:	Myogenesis,Transcription Factors,Helix-Turn-Helix,Muscle

Research Background

Differentiation of myogenic cells is regulated by multiple positively and negatively acting factors. One well characterized family of helix-loop-helix (HLH) proteins known to play an important role in the regulation of muscle cell development include Myo D, myogenin, Myf-5 and Myf-6 (also designated MRF-4 or herculin). Of interest, most muscle cells express either Myo D or Myf-5 in the committed state, but when induced to differentiate, all turn on expression of myogenin. Myo D transcription factors form heterodimers with products of a more widely expressed family of bHLH genes, the E family, which consists of at least three distinct genes: E2A, IF2 and HEB. Myo D-E heterodimers bind avidly to consensus (CANNTG) E box target sites that are functionally important elements in the upstream regulatory sequences of many muscle-specific terminal differentiation genes.

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