

MAB341Hu21

Monoclonal Antibody to Actin Alpha 1, Cardiac Muscle (ACTC1)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Monoclonal antibody preparation

Host: Mouse

Antibody isotype: IgG2b Kappa

Purification: Protein A + Protein G affinity chromatography

Clone number: C3

Traits: Liquid

Concentration: 1mg/mL

UOM: 200μL

Cross Reactivity: Mouse; Rat; Rabbit; Canine; Pig; Bovine; Gallus.

Applications: WB; IHC

[IMMUNOGEN]

Immunogen: Recombinant ACTC1 (Asp156~Gly368) expressed in *E.coli*

Accession No.: RPB341Hu01

[APPLICATIONS]

Western blotting: 0.01-4μg/mL;

Immunohistochemistry: 5-20μg/mL;

Optimal working dilutions must be determined by end user.

[FORMULATION]

Form & Buffer: Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

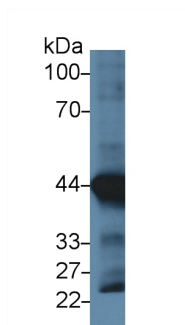
Store at 4°C for frequent use.

Aliquot and store at -20°C for 24 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no

obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[IDENTIFICATION]



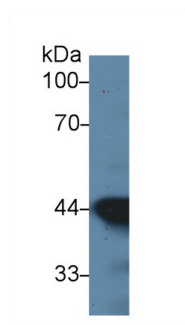
Western Blot; Sample: Rat Heart lysate;
Primary Ab: 1µg/ml Mouse Anti-Human

ACTC1 Antibody

Second Ab: 0.2µg/mL HRP-Linked

Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)



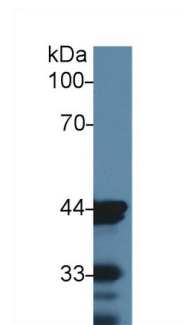
Western Blot; Sample: Mouse Heart
lysate;

Primary Ab: 4µg/ml Mouse Anti-Human
ACTC1 Antibody

Second Ab: 0.2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal

Antibody

(Catalog: SAA544Mu19)



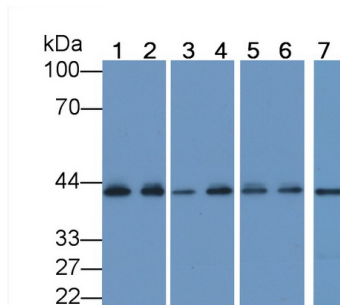
Western Blot; Sample: Mouse Skin
lysate;

Primary Ab: 4µg/ml Mouse Anti-Human
ACTC1 Antibody

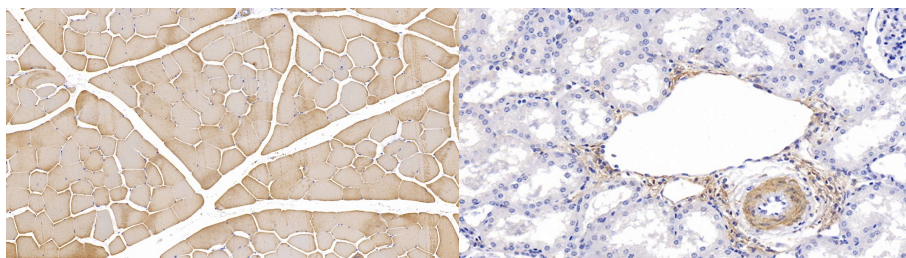
Second Ab: 0.2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal

Antibody

(Catalog: SAA544Mu19)



Western Blot; Sample: Lane1: Mouse
Skeletal muscle lysate; Lane2: Porcine
Heart lysate; Lane3: Rat Skeletal
muscle lysate; Lane4: Canine Heart
lysate; Lane5: Gallus Skeletal muscle
lysate; Lane6: Bovine Heart lysate;
Lane7: Rabbit Skeletal muscle lysate
Primary Ab: 0.5µg/ml Mouse Anti-
Human ACTC1 Antibody



DAB staining on IHC-P;

Samples: Human Skeletal muscle
Tissue;

Primary Ab: 10µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)

DAB staining on IHC-P;

Samples: Human Kidney Tissue;
Primary Ab: 10µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

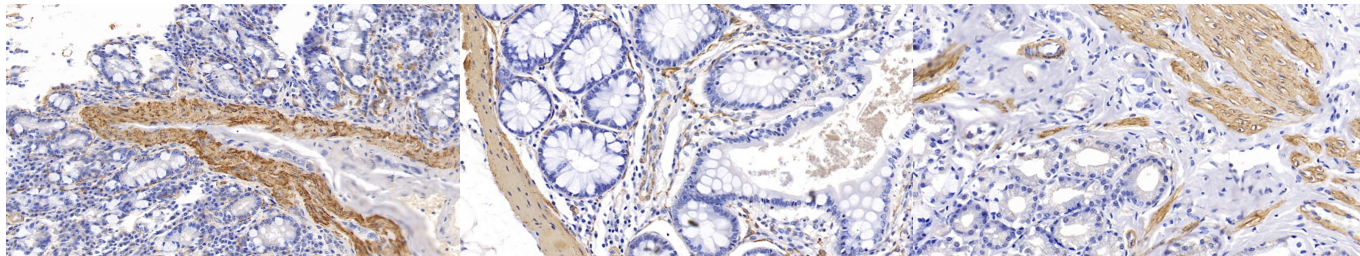
(Catalog: SAA544Mu19)

Second Ab: 0.2µg/mL HRP-Linked

Rabbit Anti-Mouse IgG Polyclonal

Antibody

(Catalog: SAA544Mu19)



DAB staining on IHC-P;

Samples: Human Small intestine
Tissue;

Primary Ab: 20µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)

DAB staining on IHC-P;

Samples: Human Colon Tissue;

Primary Ab: 10µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)

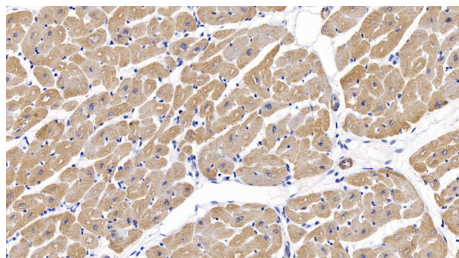
DAB staining on IHC-P;

Samples: Human Stomach Tissue;

Primary Ab: 10µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)



DAB staining on IHC-P;

Samples: Human Cardiac Muscle
Tissue;

Primary Ab: 10µg/ml Mouse Anti-
Human ACTC1 Antibody

Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody

(Catalog: SAA544Mu19)

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.