

**MAB341Hu22**

**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

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Monoclonal antibody preparation

**Host:** Mouse

**Antibody isotype:** IgG2a Kappa

**Purification:** Protein A + Protein G affinity chromatography

**Clone number:** C4

**Traits:** Liquid

**Concentration:** 1mg/mL

**UOM:** 50µL

**Cross Reactivity:** Mouse;Rat;Rabbit;Canine;Porcine;Bovine;Gallus

**Applications:** WB; IHC; ICC; IP.

## **[ IMMUNOGEN ]**

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

**Accession No.:** RPB341Hu01

## **[ APPLICATIONS ]**

Western blotting: 0.01-2µg/mL;

Immunohistochemistry: 5-20µg/mL;

Immunocytochemistry: 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.

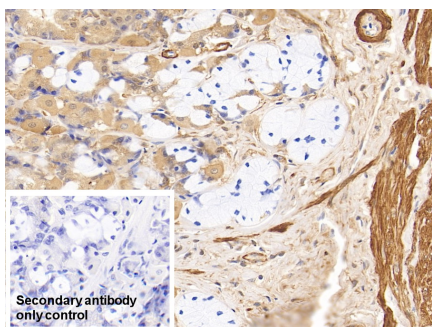
Store at 4°C for frequent use.

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

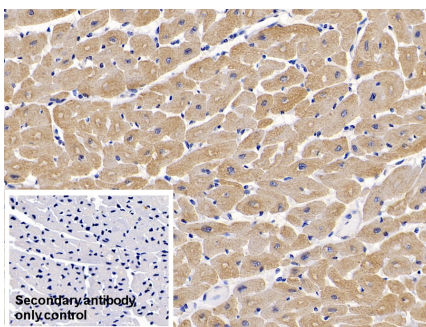
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined

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 ]

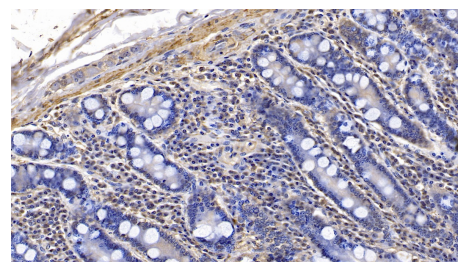


DAB staining on IHC-P; Sample: Human Stomach Tissue; Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)

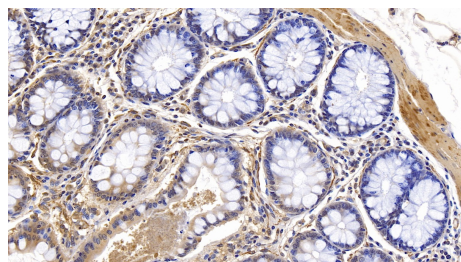


DAB staining on IHC-P; Sample: Human Cardiac Muscle Tissue; Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)

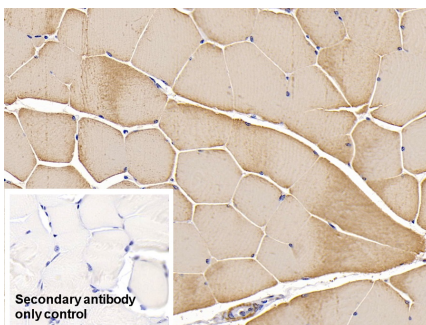
Secondary antibody only control: Used PBS instead of primary antibody , Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)



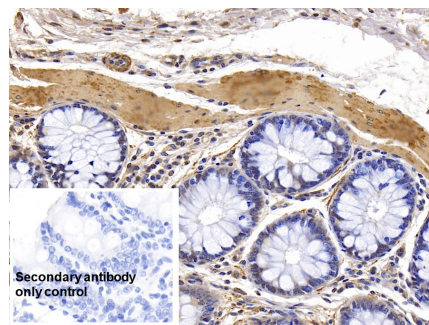
DAB staining on IHC-P; Sample: Human Small intestine Tissue; Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)



DAB staining on IHC-P; Sample: Human Colon Tissue;



DAB staining on IHC-P;



DAB staining on IHC-P;

Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody  
Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
(Catalog: SAA544Mu19)

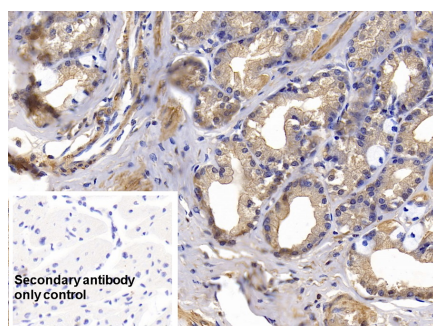
Sample: Human Skeletal muscle Tissue;

Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody  
Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
(Catalog: SAA544Mu19)

Secondary antibody only control: Used PBS instead of primary antibody ,  
Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
(Catalog: SAA544Mu19)

Sample: Human Colon Tissue

Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody  
Control: Used PBS instead of primary antibody  
Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
(Catalog: SAA544Mu19)



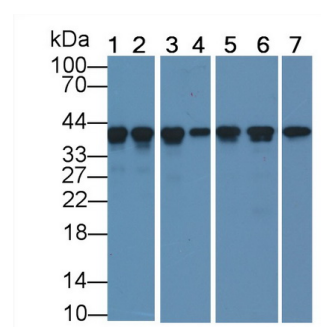
DAB staining on IHC-P;

Sample: Human Stomach Tissue  
Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody  
Control: Used PBS instead of primary antibody  
Second Ab: 2µg/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
(Catalog: SAA544Mu19)



DAB staining on IHC-P;

Sample: Human Skeletal muscle Tissue  
Primary Ab: 10µg/ml Mouse Anti-Human ACTC1 Antibody  
Control: Used PBS instead of primary antibody  
Second Ab: 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: Porcine 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  
Second Ab: 0.2µg/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.