

**PAD005Mu01**

**Polyclonal Antibody to Methionyl tRNA Synthetase (MARS)**

**Organism Species: *Mus musculus* (Mouse)**

***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:** Polyclonal antibody preparation

**Host:** Rabbit

**Purification:** Antigen-specific affinity chromatography followed by Protein A affinity chromatography

**Traits:** Liquid

**Concentration:** 0.5mg/ml

**UOM:** 100µl

**Cross Reactivity:** Human

**Applications:** WB,IHC,ICC/IF

### **[ IMMUNOGEN ]**

**Immunogen:** Recombinant MARS (Gly74~Pro212) expressed in *E.coli*

**Accession No.:** RPD005Mu01

### **[ APPLICATIONS ]**

Western blotting: 0.01-2µg/mL;

Immunohistochemistry: 5-20µg/mL;

Immunofluorescence: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 ]**

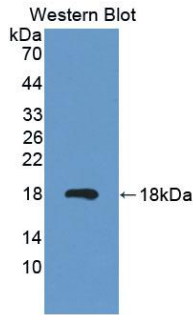
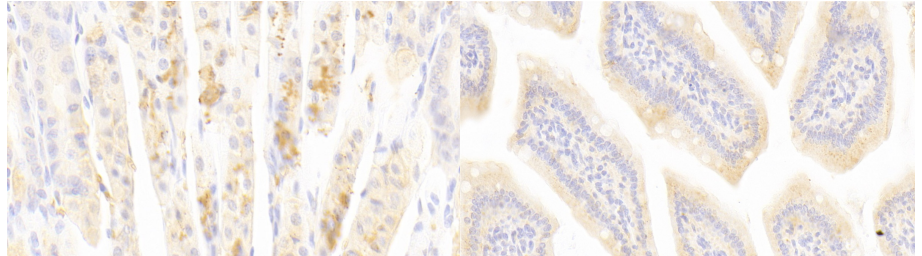
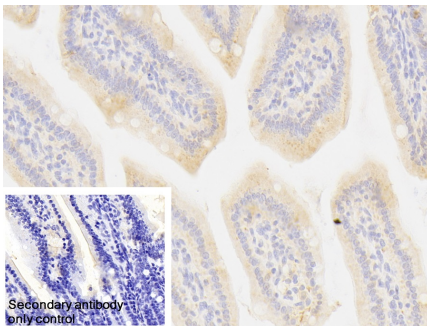


Figure. Western Blot; Sample: Recombinant MARS, Mouse.

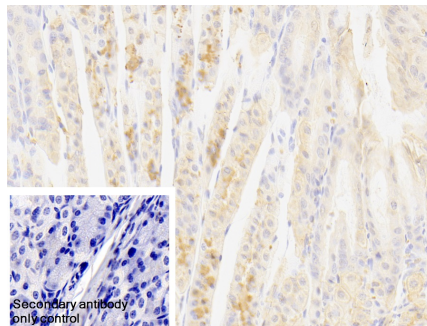


DAB staining on IHC-P; Samples: Mouse Stomach Tissue; Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)

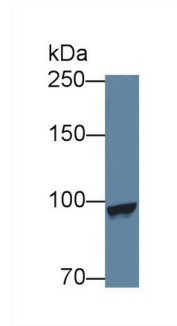
DAB staining on IHC-P; Samples: Mouse Small intestine Tissue; Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



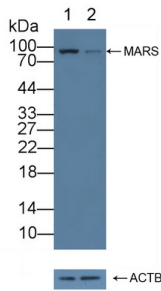
DAB staining on IHC-P; Sample: Mouse Small intestine Tissue Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody Control: Used PBS instead of primary antibody Second Ab: 2µg/ml HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



DAB staining on IHC-P; Sample: Mouse Stomach Tissue Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody Control: Used PBS instead of primary antibody Second Ab: 2µg/ml HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



Western Blot; Sample: Human HepG2 cell lysate; Primary Ab: 1µg/ml Rabbit Anti-Mouse MARS Antibody Second Ab: 0.2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



Knockout Verification:

Lane 1: Wild-type HepG2 cell lysate;

Lane 2: MARS knockout HepG2 cell lysate;

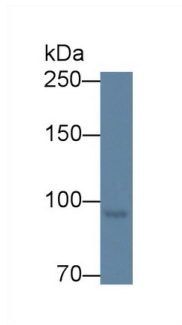
Predicted MW: 101kd

Observed MW: 90kd

Primary Ab: 1µg/ml Rabbit Anti-Mouse MARS Antibody

Second Ab: 0.2µg/ml HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody

(Catalog: SAA544Rb19)



Western Blot; Sample: Mouse

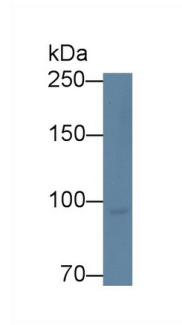
Pancreas lysate;

Primary Ab: 1µg/ml Rabbit Anti-Mouse MARS Antibody

Second Ab: 0.2µg/ml HRP-Linked

Caprine Anti-Rabbit IgG Polyclonal Antibody

(Catalog: SAA544Rb19)



Western Blot; Sample: Mouse Liver

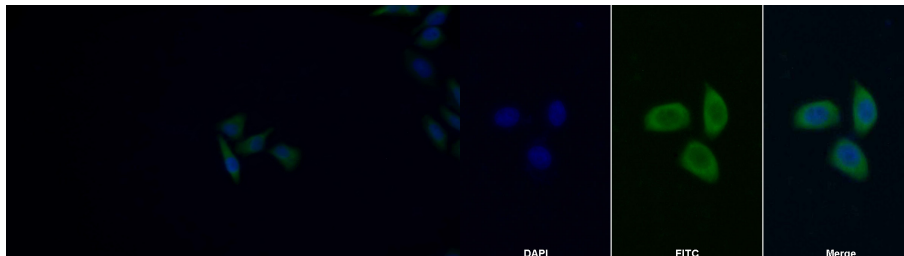
lysate;

Primary Ab: 1µg/ml Rabbit Anti-Mouse MARS Antibody

Second Ab: 0.2µg/ml HRP-Linked

Caprine Anti-Rabbit IgG Polyclonal Antibody

(Catalog: SAA544Rb19)



FITC staining on IF;

Samples: Human HepG2 cell;

Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody

Second Ab: 1.5µg/ml FITC-Linked

Caprine Anti-Rabbit IgG Polyclonal Antibody

(Catalog: SAA544Rb18)

FITC staining on IF;

Sample: HepG2 cell

Primary Ab: 20µg/ml Rabbit Anti-Mouse MARS Antibody

Second Ab: 2µg/ml FITC-Linked

Caprine Anti-Rabbit IgG Polyclonal Antibody

(Catalog: SAA544Rb11)

## [ **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.