

For Research Use Only

# Mecr Polyclonal antibody

Catalog Number: 51027-2-AP **6 Publications**



## Basic Information

**Catalog Number:**

51027-2-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0465

**GenBank Accession Number:**

BC003864

**GeneID (NCBI):**

26922

**UNIPROT ID:**

Q9DCS3

**Full Name:**

mitochondrial trans-2-enoyl-CoA reductase

**Calculated MW:**

40 kDa

**Observed MW:**

37-40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, yeast, mouse

**Positive Controls:**

WB : mouse heart tissue, mouse skeletal muscle tissue, mouse stomach tissue, rat heart tissue

IP : mouse heart tissue,

IF : C2C12 cells,

## Background Information

Mitochondrial Trans-2-Enoyl-CoA Reductase is abbreviated as MECR, involved in human mitochondrial fatty acid synthesis (mtFAS) as an oxidoreductase. (PMID: 27817865) MECR has molecular weight can be calculated around 37KDa. With immunoprecipitation reaction on mouse heart samples, the IgG heavy chain, dimer of MECR is around 65KDa. Numerous studies have shown disorder of lipid metabolism is closely related with malignance, especially in liver cancer. As further research suggests that MECR has close relationship with cell proliferation, apoptosis, and metastasis (PMID: 31178528)

## Notable Publications

| Author       | Pubmed ID | Journal        | Application |
|--------------|-----------|----------------|-------------|
| Remya R Nair | 30266742  | J Neurosci     | IHC,IF      |
| Remya R Nair | 28369354  | Hum Mol Genet  | WB          |
| Gali Heimer  | 27817865  | Am J Hum Genet | WB          |

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

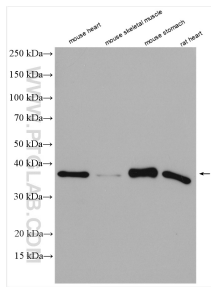
T: 4006900926

E: Proteintech-CN@ptglab.com

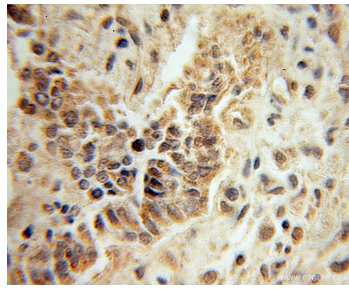
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

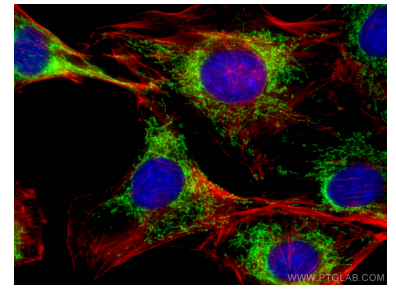
## Selected Validation Data



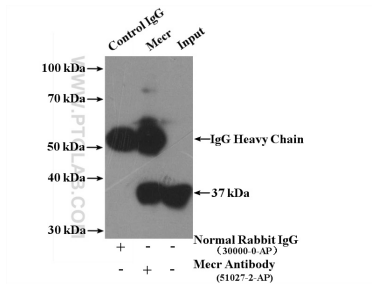
Various lysates were subjected to SDS PAGE followed by western blot with 51027-2-AP (Mecr antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



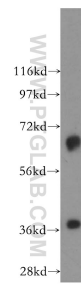
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 51027-2-AP (Mecr antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Mecr antibody (51027-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-Mecr (IP:51027-2-AP, 4ug; Detection:51027-2-AP 1:1500) with mouse heart tissue lysate 4800ug.



mouse heart tissue were subjected to SDS PAGE followed by western blot with 51027-2-AP (Mecr antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.