

For Research Use Only

# Mecr Polyclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 51027-2-AP	<b>GenBank Accession Number:</b> BC003864	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26922	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> mitochondrial trans-2-enoyl-CoA reductase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 40 kDa	
<b>Immunogen Catalog Number:</b> AG0465	<b>Observed MW:</b> 37-40 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> mouse heart tissue, mouse skeletal muscle tissue, mouse stomach tissue, rat heart tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> mouse heart tissue,
<b>Cited Species:</b> human, yeast, mouse	<b>IF :</b> 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

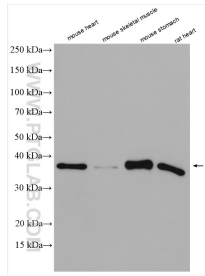
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

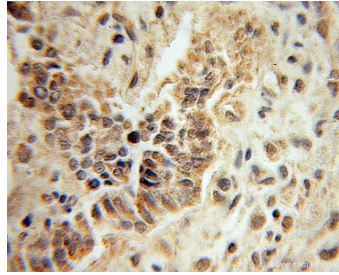
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

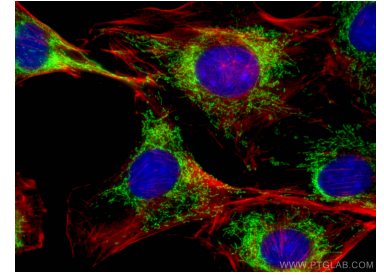
## Selected Validation Data



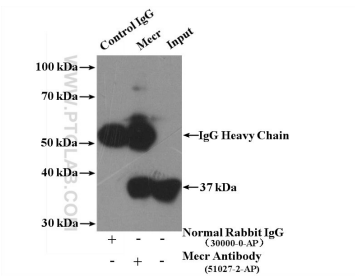
Various lysates were subjected to SDS PAGE followed by western blot with 51027-2-AP (Mecr antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



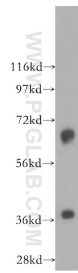
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 51027-2-AP (Mecr antibody) at dilution of 1:100 (under 10x lens).



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, 4 $\mu$ g; Detection:51027-2-AP 1:1500) with mouse heart tissue lysate 4800 $\mu$ g.



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.