

For Research Use Only

# Mouse MECR Recombinant antibody, PBS Only

Catalog Number: 84729-4-PBS



## Basic Information

<b>Catalog Number:</b> 84729-4-PBS	<b>GenBank Accession Number:</b> BC003864	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 26922	<b>CloneNo.:</b> 242151C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9DCS3	
<b>Isotype:</b> IgG	<b>Full Name:</b> mitochondrial trans-2-enoyl-CoA reductase	
<b>Immunogen Catalog Number:</b> AG0465	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 37-40 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

Mitochondrial 2-enoyl-acyl-carrier protein reductase (MECR) is an enzyme in the mitochondrial fatty acid synthase (mtFAS) pathway. MECR is involved in the synthesis of lipoic acid and is required for mitochondrial respiratory competence. MECR is highly expressed in skeletal and heart muscles and exhibits lower expression in placenta, liver, kidney, and pancreas. It is weakly expressed or not expressed in the lung (PMID: 32440681, PMID: 37734847, PMID: 38296034).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

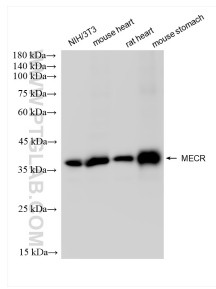
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

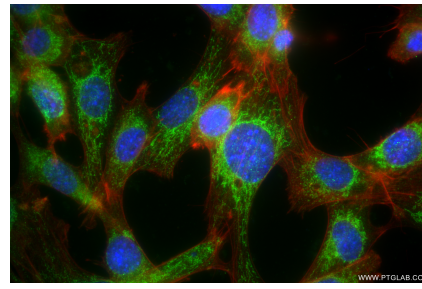
W: [ptgcn.com](http://ptgcn.com)

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

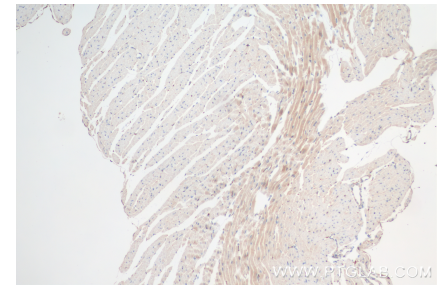
## Selected Validation Data



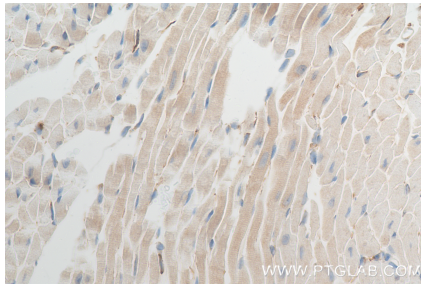
Various lysates were subjected to SDS PAGE followed by western blot with 84729-4-RR (MECR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84729-4-PBS in a different storage buffer formulation.



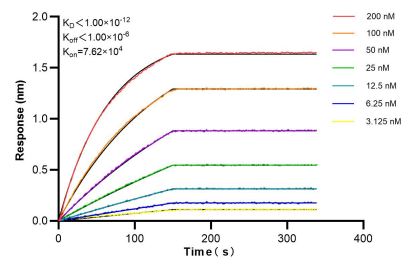
Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using MECR antibody (84729-4-RR, Clone: 242151C5) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84729-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 84729-4-RR (MECR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84729-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 84729-4-RR (MECR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84729-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84729-4-RR against Mouse MECR were performed. The affinity constant is below 1 pM.