

For Research Use Only

Mouse MECR Recombinant monoclonal antibody, PBS Only

Catalog Number: 84729-4-PBS



Basic Information

Catalog Number:

84729-4-PBS

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:

Protein A purification

CloneNo.:

242151C5

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, pH7.3

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

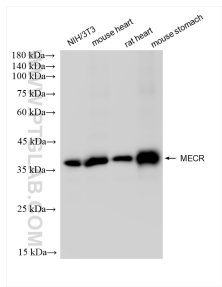
T: 4006900926

E: Proteintech-CN@ptglab.com

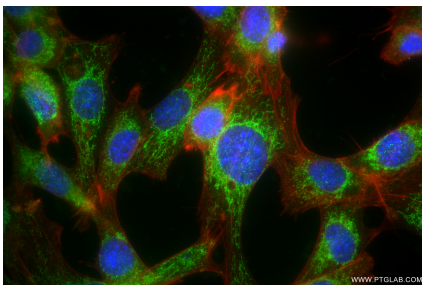
W: ptgcn.com

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

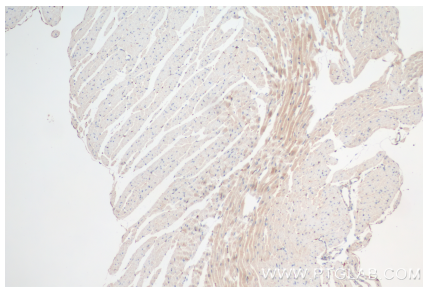
Selected Validation Data



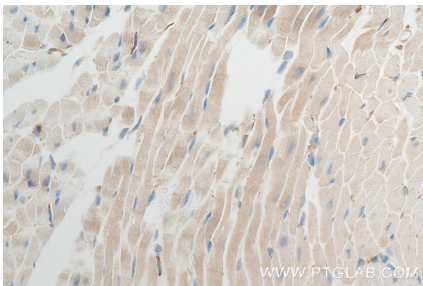
Various lysates were subjected to SDS PAGE followed by western blot with 84729-4-RR (MECR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84729-4-PBS in a different storage buffer formulation.



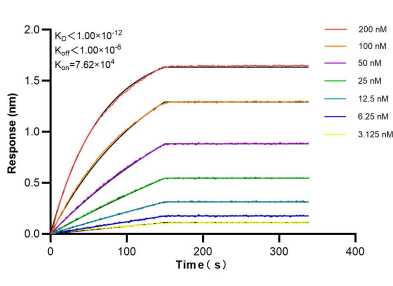
Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using MECR antibody (84729-4-RR, Clone: 242151C5) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84729-4-PBS in a different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