

# MECR Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20364c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9BV79</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	40462
<b>Antigen Region</b>	201-229

## Additional Information

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<b>Gene ID</b>	51102
<b>Other Names</b>	Trans-2-enoyl-CoA reductase, mitochondrial, Nuclear receptor-binding factor 1, HsNrnf-1, NRBF-1, MECR, NBRF1
<b>Target/Specificity</b>	This MECR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-229 amino acids from the Central region of human MECR.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MECR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MECR
<b>Synonyms</b>	NBRF1
<b>Function</b>	Catalyzes the NADPH-dependent reduction of trans-2-enoyl thioesters in mitochondrial fatty acid synthesis (fatty acid synthesis type II). Fatty acid chain elongation in mitochondria uses acyl carrier protein (ACP) as an acyl

group carrier, but the enzyme accepts both ACP and CoA thioesters as substrates in vitro. Displays a preference for medium-chain over short- and long-chain substrates (PubMed:[12654921](#), PubMed:[18479707](#), PubMed:[27817865](#)). May provide the octanoyl chain used for lipoic acid biosynthesis, regulating protein lipoylation and mitochondrial respiratory activity particularly in Purkinje cells (By similarity). Involved in iron homeostasis; affecting Fe-S cluster assembly and ceramide metabolism (PubMed:[37653044](#)). Required for proper morphology and bioenergetic functions of mitochondria (PubMed:[37653044](#)). Required for maintenance of neurons (By similarity).

**Cellular Location**

[Isoform 1]: Mitochondrion

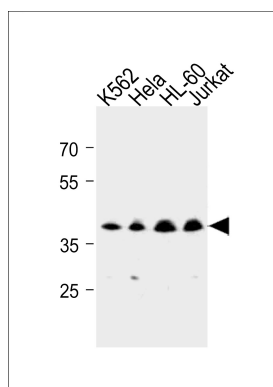
**Tissue Location**

Highly expressed in skeletal and heart muscle. Expressed at lower level in placenta, liver, kidney and pancreas Weakly or not expressed in lung.

## Background

Catalyzes the reduction of trans-2-enoyl-CoA to acyl-CoA with chain length from C6 to C16 in an NADPH-dependent manner with preference to medium chain length substrate. May have a role in the mitochondrial synthesis of fatty acids.

## Images



MECR Antibody (Center) (Cat. #AP20364c) western blot analysis in K562, HeLa, HL-60, Jurkat cell line lysates (35ug/lane). This demonstrates the MECR antibody detected the MECR protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.