Data Sheet (Cat.No.TMAB-08703)

Anti-MECR Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Rabbit,Sheep)
Molecular Weight:	Theoretical: 36 kDa. Actual: 40 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MECR) Polyclonal Antibody, Unconjugated (TMAB-08703) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 2. Sample: Muscle (Mouse) Lysate at 40 µg Primary: Anti-MECR (TMAB-08703) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 40 kD
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MECR
Antigen Species:	Human
Gene ID:	51102
Uniprot ID:	Q9BV79

Research Background

Mecr is a 373 amino acid mitochondrial protein that may play a role in fatty acid synthesis. Existing as two alternatively spliced isoforms, Mecr is highly expressed in cardiac and skeletal muscle, with lower levels found in pancreas, kidney, placenta and liver. Mecr forms a homodimer and belongs to the zinc-containing alcohol dehydrogenase family and quinone oxidoreductase subfamily. Mecr reduces trans-2-enoyl-CoA to acyl-CoA in an NADPH-dependent manner and is encoded by a gene that maps to human chromosome 1p35.3. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

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