



Rabbit Anti-DECR2 antibody

SL14240R

Product Name:	DECR2
Chinese Name:	过氧化物酶体2抗体
Alias:	2 4 dienoyl CoA reductase 2; 2 4 dienoyl CoA reductase 2 peroxisomal; 2; 4-dienoyl-CoA reductase 2; 4-dienoyl-CoA reductase; DECR 2; Decr2; DECR2_HUMAN; EC 1.3.1.34; pDCR; Peroxisomal 2 4 dienoyl CoA reductase; Peroxisomal 2; SDR17C1; Short chain dehydrogenase/reductase family 17C member 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	31kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DECR2:201-292/292
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	DECR2 is a 292 amino acid member of the short-chain dehydrogenases/reductases (SDR) protein family and the 2,4-dienoyl-CoA reductase protein subfamily. Localized to the peroxisome, DECR2 is an auxiliary enzyme of beta-oxidation that catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA. DECR2

has also been shown to have catalytic activity towards 2,4,7,10,13,16,19-docosaheptaenoyl-CoA and short and medium chain 2,4-dienoyl-CoAs, suggesting that DECR2 is not a rate limiting step in the degradation of docosahexaenoic acid in the peroxisome. DECR2 is expressed as three isoforms produced by alternative splicing events.

Function:

Auxiliary enzyme of beta-oxidation. Participates in the degradation of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions in peroxisome. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA. Has activity towards short and medium chain 2,4-dienoyl-CoAs, but also towards 2,4,7,10,13,16,19-docosaheptaenoyl-CoA, suggesting that it does not constitute a rate limiting step in the peroxisomal degradation of docosahexaenoic acid.

Subunit:

Monomer, dimer and oligomer.

Subcellular Location:

Peroxisome.

Similarity:

Belongs to the short-chain dehydrogenases/reductases (SDR) family. 2,4-dienoyl-CoA reductase subfamily.

SWISS:

Q9NUI1

Gene ID:

26063

Database links:

[Entrez Gene: 26063](#) Human

[Entrez Gene: 26378](#) Mouse

[Entrez Gene: 64461](#) Rat

[SwissProt: Q9NUI1](#) Human

[SwissProt: Q9WV68](#) Mouse

[SwissProt: Q9Z2M4](#) Rat

[Unigene: 628831](#) Human

[Unigene: 655999](#) Human

[Unigene: 292869](#) Mouse

[Unigene: 144598](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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