10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DECR1 Rabbit pAb

Catalog # AP98262

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q16698
Other Accession	Q16698
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36068
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DECR1
Epitope Specificity	201-300/335
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the short-chain dehydrogenases/reductases (SDR) family. 2,4-dienoyl-CoA reductase subfamily.
SUBUNIT	Homotetramer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Auxiliary enzyme of beta-oxidation. It participates in the metabolism of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA.

Additional Information

Gene ID	1666
Other Names	DECR; NADPH; SDR18C1; 1200012F07Rik; DECR_HUMAN; DECR1; 2, 4-dienoyl-CoA reductase [NADPH] (4-enoyl-CoA reductase [NADPH]); Short chain dehydrogenase/reductase family 18C member 1; 1.3.1.124; DECR_MOUSE; DECR_RAT; 2, 4-dienoyl-CoA reductase 1; 2, 4-dienoyl-CoA reductase 1, mitochondrial; short chain dehydrogenase/reductase family 18C, member 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	DECR1
Synonyms	DECR, SDR18C1
Function	Auxiliary enzyme in the beta-oxidation of mono- and polyunsaturated fatty acids (Probable) (PubMed:15531764, PubMed:26474213). Together with the Enoyl-CoA delta isomerase 1 (ECI1) and the Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase (ECH1) they allow reentrance of the enoyl-CoA into the beta-oxidation cycle (PubMed:26474213). It participates in the metabolism of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd- numbered positions in mitochondria (PubMed:15531764). Acts primarily on polyunsaturated fatty acids (Probable). Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA (PubMed:15531764). Based on its established catalytic mechanism, it is predicted to act also on other fatty acids besides those tested experimentally (Probable).
Cellular Location	Mitochondrion.
Tissue Location	Heart = liver = pancreas > kidney >> skeletal muscle = lung.

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