DHRS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DHRS4, Polyclonal Antibody
Full Product Name	DHRS4 Polyclonal Antibody
Product Gene Name	anti-DHRS4 antibody
Product Synonym Names	CR; NRDR; PHCR; PSCD; SDR-SRL; SDR25C1; SDR25C2; SCAD-SRL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	30kDa
OMIM	AF044127 mRNA
3D Structure	ModBase 3D Structure for Q9BTZ2
Immunogen	Recombinant protein of human DHRS4
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DHRS4 antibody	Western Blot (WB)
Application Notes for anti-DHRS4 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-DHRS4 antibody	MBS2547620 is an antibody targeting DHRS4. Also known as DHRS4 Polyclonal Antibody. Host: Rabbit.
Other Notes	Small volumes of anti-DHRS4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DHRS4. It may not necessarily be applicable to this product.

NCBI GI #	545479056
NCBI GeneID	10901
NCBI Accession #	NP_001269916.1
UniProt Primary Accession #	Q9BTZ2
UniProt Secondary Accession #	O95162; Q20CR0; Q2LC19; Q2LE81; Q58IU4; Q6E0Y1; Q6UWU3; B2RB10; B7WNS9; D3YTB8; E2QRL8
UniProt Related Accession #	Q9BTZ2
GenBank Nucleotide #	NM_001282987.1
NCBI Official Full Name	dehydrogenase/reductase SDR family member 4 isoform 2

NCBI Official Synonym Full Names	dehydrogenase/reductase 4
NCBI Official Symbol	DHRS4
NCBI Official Synonym Symbols	CR; NRDR; PHCR; PSCD; SDR-SRL; SDR25C1; SDR25C2; SCAD-SRL
UniProt Protein Name	Dehydrogenase/reductase SDR family member 4
UniProt Synonym Protein Names	NADPH-dependent carbonyl reductase/NADP-retinol dehydrogenase; CR; PHCR; NADPH-dependent retinol dehydrogenase/reductase; NRDR; humNRDR; Peroxisomal short-chain alcohol dehydrogenase; PSCD; SCAD-SRL; Short chain dehydrogenase/reductase family 25C member 2; Short-chain dehydrogenase/reductase family member 4
Protein Family	Putative uncharacterized protein
UniProt Gene Name	DHRS4
UniProt Synonym Gene Names	SDR25C2; CR; PHCR; NRDR; humNRDR; PSCD
NCBI Protein Information	dehydrogenase/reductase SDR family member 4
UniProt Comments for DHRS4	DHRS4: Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co- factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones. Belongs to the short-chain dehydrogenases/reductases (SDR) family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Cofactor and Vitamin Metabolism - retinol; EC 1.1.1.184; Mitochondrial; Nuclear envelope; Oxidoreductase Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: endoplasmic reticulum membrane; mitochondrion; peroxisomal membrane; peroxisome Molecular Function: 3-keto sterol reductase activity; alcohol dehydrogenase [NAD(P)+] activity; carbonyl reductase (NADPH) activity; oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor; receptor binding Biological Process: alcohol metabolic process; ketone metabolic process; protein tetramerization; steroid metabolic process
Research Articles on DHRS4	**1.** An analysis of the relationship between the promoter characteristics and RNA expression of the DHRS4 gene cluster indicated that the development of CpG islands, in addition to the promoter sequence, during mammalian evolution could modulate the dose compensatory regulation of the copy number-varied DHRS4 gene cluster
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