SDR16C5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SDR16C5, Polyclonal Antibody
Full Product Name	SDR16C5, ID (SDR16C5, RDHE2, Epidermal retinol dehydrogenase 2, Retinal short-chain dehydrogenase reductase 2, Short-chain dehydrogenase/reductase family 16C member 5) (MaxLight 405)
Product Gene Name	anti-SDR16C5 antibody
Product Synonym Names	SDR16C5; RDHE2; Epidermal retinol dehydrogenase 2; Retinal short-chain dehydrogenase reductase 2; Short-chain dehydrogenase/reductase family 16C member 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	29,164 Da
OMIM	608989
3D Structure	ModBase 3D Structure for Q8N3Y7
Immunogen	SDR16C5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 122-151 amino acids from the Central region of human SDR16C5.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-SDR16C5 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-SDR16C5 antibody	Western Blot (WB), FLISA
Application Notes for anti-SDR16C5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SDR16C5 antibody	RDHE2 belongs to a family of short-chain alcohol dehydrogenases/reductases that catalyze the first and rate-limiting step that generates retinaldehyde from retinol (Matsuzaka et al., 2002 [PubMed 12372410]).
Product References and Citations for anti-SDR16C5 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Zhao, J., et al. BMC Med. Genet. 11, 96 (2010): Takahashi, Y., et al. Biochem. J. 419(1):113-122(2009). Soranzo, N., et al. PLoS Genet. 5 (4), E1000445 (2009): Lee, S.A., et al. Chem. Biol. Interact. 178 (1-3), 182-187 (2009).
Other Notes	Small volumes of anti-SDR16C5 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.

Searchable Terms for SDR16C5 purchase	MBS6345662 is an antibody targeting SDR16C5. Also known as SDR16C5, ID (SDR16C5, RDHE2, Epidermal retinol dehydrogenase 2, Retinal short-chain dehydrogenase reductase 2, Short-chain dehydrogenase/reductase family 16C member 5) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SDR16C5. It may not necessarily be applicable to this product.

NCBI GI #	40807363
NCBI GeneID	195814
NCBI Accession #	NP_620419.2
UniProt Primary Accession #	Q8N3Y7
UniProt Secondary Accession #	Q330K3; Q8TDV9; Q96LX1; B4DGK2
UniProt Related Accession #	Q8N3Y7
GenBank Nucleotide #	NM_138969.2
NCBI Official Full Name	epidermal retinol dehydrogenase 2
NCBI Official Synonym Full Names	short chain dehydrogenase/reductase family 16C, member 5
NCBI Official Symbol	SDR16C5
NCBI Official Synonym Symbols	RDH#2; RDHE2; RDH-E2
UniProt Protein Name	Epidermal retinol dehydrogenase 2
UniProt Synonym Protein Names	Retinal short-chain dehydrogenase reductase 2; retSDR2; Short-chain dehydrogenase/reductase family 16C member 5
Protein Family	Epidermal retinol dehydrogenase
UniProt Gene Name	SDR16C5
UniProt Synonym Gene Names	RDHE2; EPHD-2; RDH-E2; retSDR2
UniProt Entry Name	RDHE2_HUMAN
NCBI Protein Information	epidermal retinol dehydrogenase 2; EPHD-2; epidermal retinal dehydrogenase 2; retSDR2; retinal short chain dehydrogenase reductase; retinal short-chain dehydrogenase reductase 2; short-chain dehydrogenase/reductase family 16C member 5
UniProt Comments for SDR16C5	RDHE2: Oxidoreductase with strong preference for NAD. Active in both the oxidative and reductive directions. Oxidizes all-trans- retinol in all-trans-retinaldehyde. No activity was detected with 11-cis-retinol or 11-cis-retinaldehyde as substrates with either NAD(+)/NADH or NADP(+)/NADPH. Belongs to the short-chain dehydrogenases/reductases (SDR) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Oxidoreductase; Membrane protein, integral; EC 1.1.1.105 Chromosomal Location of Human Ortholog: 8q12.1 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: retinol dehydrogenase activity Biological Process: retinal metabolic process; retinol metabolic process; detection of light stimulus involved in visual perception; keratinocyte proliferation
Research Articles on SDR16C5	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)

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