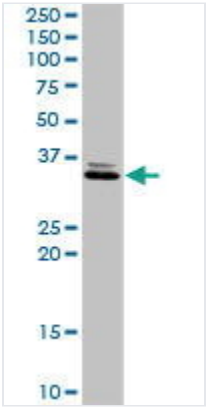
SDR16C5 Antibody – Rabbit Polyclonal

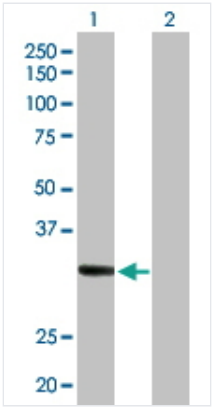
PRODUCT OVERVIEW

Product Name	SDR16C5, Polyclonal Antibody
Full Product Name	SDR16C5 (Short-chain Dehydrogenase/reductase Family 16C Member 5, Epidermal Retinol Dehydrogenase 2, EPHD-2, RDHE2, RDH-E2, RDH#2, R
Product Gene Name	anti-SDR16C5 antibody
Product Synonym Names	EC=1.1.1.105
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human RDHE2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	29,164 Da
OMIM	608989
3D Structure	ModBase 3D Structure for Q8N3Y7
Immunogen	Full length human RDHE2, aa1-309 (NP_620419.2).
Immunogen Sequence	MSFNLQSSKKLFIFLGKSLFSLLEAMIFALLPKPRKNVAGEIVLITGAGSGLGRLLALQFARLGSVLVLWDINKEGNEETCKMAREAGATRVHAYTCDCSQK
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SDR16C5 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-SDR16C5 antibody	Western Blot (WB)
Application Notes for anti-SDR16C5 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SDR16C5 antibody	MBS6392267 is an antibody targeting SDR16C5. Also known as SDR16C5 (Short-chain Dehydrogenase/reductase Family 16C Member 5, Epidermal I
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 nec



Western Blot (WB) of anti-SDR16C5 antibody
RDHE2 rabbit polyclonal antibody. Western Blot analysis of RDHE2 expression in mouse liver.



Western Blot (WB) of anti-SDR16C5 antibody
Western Blot analysis of SDR16C5 expression in transfected 293T cell line by SDR16C5 polyclonal antibody. Lane 1: RDHE2 transfected lysate (34.1kD). Lane 2: Non-transfected lysate.

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

NCBI Summary for SDR16C5	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]).[supplied by OMIM, Mar 2008]
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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