Sterol Carrier Protein 2 (SCP2) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Sterol carrier protein 2 (SCP2), ELISA Kit
Full Product Name	Chicken Sterol carrier protein 2 ELISA Kit
Product Gene Name	SCP2 elisa kit
Species Reactivity	Chicken
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	56,497 Da
OMIM	gene 613724
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for SCP2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for SCP2 elisa kit	MBS755752 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Sterol carrier protein 2 (SCP2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SCP2. The ELISA analytical biochemical technique of the MBS755752 kit is based on SCP2 antibody-SCP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SCP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SCP2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of SCP2 elisa kit 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 SCP2. It may not necessarily be applicable to this product.

NCBI GI #	263551
NCBI GeneID	6342
NCBI Accession #	AAB24921.1
UniProt Secondary Accession #	Q15432; Q16622; Q5VVZ1; Q6NXF4; A6NM69; B4DGJ9; B4DHP6; C9JC79; D3DQ37; E1B6W5; F2Z3J1
UniProt Related Accession #	P22307
NCBI Official Full Name	sterol carrier protein 2
NCBI Official Synonym Full Names	sterol carrier protein 2
NCBI Official Symbol	SCP2
NCBI Official Synonym Symbols	NLTP; SCPX; SCP-2; SCP-X; NSL-TP; SCP-CHI

UniProt Protein Name	Non-specific lipid-transfer protein
UniProt Synonym Protein Names	Propanoyl-CoA C-acyltransferase; SCP-chi; SCPX; Sterol carrier protein 2; SCP-2; Sterol carrier protein X; SCP-X
UniProt Gene Name	SCP2
UniProt Synonym Gene Names	NSL-TP; SCP-2; SCP-X
UniProt Entry Name	NLTP_HUMAN
NCBI Protein Information	non-specific lipid-transfer protein; sterol carrier protein X; propanoyl-CoA C-acyltransferase
NCBI Summary for SCP2	This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms.[provided by RefSeq, Aug 2010]
UniProt Comments for SCP2	SCP2: Mediates in vitro the transfer of all common phospholipids, cholesterol and gangliosides between membranes. May play a role in regulating steroidogenesis. Defects in SCP2 are a cause of leukoencephalopathy with dystonia and motor neuropathy (LDMN); also known as sterol carrier protein 2 deficiency. LDMN is a syndrome characterized by leukoencephalopathy, dystonic head tremor, spasmodic torticollis and reduced tendon reflexes in lower extremities. Additional features include hyposmia, pathologic saccadic eye movements, a slight hypoacusis, accumulation of branched-chain pristanic acid in plasma, and the presence of abnormal bile alcohol glucuronides in urine. 3 isoforms of the human protein are produced by alternative promoter. Protein type: EC 2.3.1.176; Lipid Metabolism - primary bile acid biosynthesis; Lipid-binding; Transferase; Mitochondrial Chromosomal Location of Human Ortholog: 1p32 Cellular Component: nucleoplasm; peroxisomal matrix; protein complex; intracellular membrane-bound organelle; mitochondrion; membrane; cytoplasm; peroxisome Molecular Function: protein binding; acyl-CoA binding; phosphatidylinositol transporter activity; cholesterol binding; propanoyl-CoA C-acyltransferase activity; receptor binding Biological Process: bile acid biosynthetic process; fatty acid beta-oxidation using acyl-CoA oxidase; progesterone biosynthetic process; bile acid metabolic process; inositol trisphosphate biosynthetic process; peroxisome organization and biogenesis; unsaturated fatty acid metabolic process; positive regulation of intracellular cholesterol transport; phospholipid transport; cellular lipid metabolic process; lipid transport; steroid biosynthetic process; positive regulation of steroid metabolic process Disease: Leukoencephalopathy With Dystonia And Motor Neuropathy
Research Articles on SCP2	**1.** The Peroxisomal targeting signal 1 in Scp2 is autonomous and is essential for binding to pex5.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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