Soluble Retinoid X Receptor (RXR) ELISA Kit for Horse

PRODUCT OVERVIEW

Product Name	Soluble Retinoid X Receptor (RXR), ELISA Kit
Full Product Name	Horse Soluble Retinoid X Receptor ELISA Kit
Product Gene Name	RXR elisa kit
Species Reactivity	Horse
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	120,537 Da
3D Structure	ModBase 3D Structure for Q9WTN3
Related Product Information for RXR elisa kit	MBS015470 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Soluble Retinoid X Receptor (RXR) 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 RXR. The ELISA analytical biochemical technique of the MBS015470 kit is based on RXR antibody-RXR antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RXR antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RXR. 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 RXR 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 RXR. It may not necessarily be applicable to this product.

NCBI GI #	158524238
NCBI GeneID	20787
NCBI Accession #	Q9WTN3.4
UniProt Primary Accession #	Q9WTN3
UniProt Secondary Accession #	Q3U458; Q3UDJ3; Q5SRX5; Q8C733; Q99JK7
UniProt Related Accession #	Q9WTN3
NCBI Official Full Name	Sterol regulatory element-binding protein 1
NCBI Official Synonym Full Names	sterol regulatory element binding transcription factor 1
NCBI Official Symbol	Srebf1
NCBI Official Synonym Symbols	ADD1; ADD-1; SREBP1; bHLHd1; SREBP-1; SREBP1c; SREBP-1a; SREBP-1c; D630008H06
UniProt Protein Name	Sterol regulatory element-binding protein 1
UniProt Synonym Protein Names	Sterol regulatory element-binding transcription factor 1
Protein Family	Retinoic acid receptor
UniProt Gene Name	Srebf1

UniProt Synonym Gene Names	Srebp1; SREBP-1
UniProt Entry Name	SRBP1_MOUSE
NCBI Protein Information	sterol regulatory element-binding protein 1; adipocyte determination- and differentiation-dependent factor 1
UniProt Comments for RXR	SREBP-1: Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the fatty acid and to a lesser degree the cholesterol synthesis pathway. Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3'). Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3'). Forms a tight complex with SCAP in the ER membrane. Efficient DNA binding of the soluble transcription factor fragment requires dimerization with another bHLH protein. Interacts with LMNA. Expressed in a wide variety of tissues, most abundant in liver and adrenal gland. In fetal tissues lung and liver shows highest expression. Isoform SREBP-1C predominates in liver, adrenal gland and ovary, whereas isoform SREBP-1A predominates in hepatoma cell lines. Isoform SREBP-1A and isoform SREBP-1C are found in kidney, brain, white fat, and muscle. Belongs to the SREBP family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor; Membrane protein, integral; Membrane protein, multi-pass Cellular Component: Golgi apparatus; protein complex; intracellular membrane-bound organelle; membrane; endoplasmic reticulum; cytoplasm; integral to membrane; cytoplasmic vesicle; nucleus Molecular Function: protein dimerization activity; protein binding; sterol response element binding; DNA binding; sequence-specific DNA binding; protein complex binding; chromatin binding; transcription factor activity; protein kinase binding Biological Process: steroid metabolic process; cholesterol metabolic process; positive regulation of fatty acid biosynthetic process; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; lipid biosynthetic process; positive regulation of cholesterol biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; cellular response to starvation; negative regulation of insulin secretion; positive regulation of histone deacetylation; regulation of transcription, DNA-dependent; chemical signal regulation of heart rate; regulation of fatty acid metabolic process; insulin receptor signaling pathway; response to glucose stimulus; positive regulation of transcription from RNA polymerase II promoter; lipid metabolic process; regulation of insulin secretion
Research Articles on RXR	**1.** Adaptive responses by mouse fetus to a maternal HLE diet by downregulating SREBP1
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