LHX1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	LHX1, Lysate
Full Product Name	Human LHX1 Protein Lysate
Product Gene Name	LHX1 lysate
Product Synonym Names	LHX1; LIM-1; LIM1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	45kDa
OMIM	601999
3D Structure	ModBase 3D Structure for P48742
Related Product Information for LHX1 lysate	Human LHX1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of LHX1 lysate 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 LHX1 purchase	MBS8414484 is a lysate targeting LHX1. Also known as Human LHX1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LHX1. It may not necessarily be applicable to this product.

NCBI GI #	30410785
NCBI GeneID	3975
NCBI Accession #	NP_005559
UniProt Primary Accession #	P48742
UniProt Related Accession #	P48742
GenBank Nucleotide #	NM_005568
NCBI Official Full Name	LIM/homeobox protein Lhx1
NCBI Official Synonym Full Names	LIM homeobox 1
NCBI Official Symbol	LHX1
NCBI Official Synonym Symbols	LIM1; LIM-1
UniProt Protein Name	LIM/homeobox protein Lhx1
UniProt Synonym Protein Names	Homeobox protein Lim-1
Protein Family	LIM/homeobox protein

UniProt Gene Name	LHX1
UniProt Synonym Gene Names	LIM-1; LIM1; LIM homeobox protein 1; hLim-1
UniProt Entry Name	LHX1_HUMAN
NCBI Protein Information	LIM/homeobox protein Lhx1
NCBI Summary for LHX1	This gene encodes a member of a large protein family which contains the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein is a transcription factor important for the development of the renal and urogenital systems. This gene is a candidate for Mayer-Rokitansky-Kuster-Hauser syndrome, a disorder characterized by anomalies in the female genital tract. [provided by RefSeq, Dec 2010]
UniProt Comments for LHX1	LHX1: Potential transcription factor. May play a role in early mesoderm formation and later in lateral mesoderm differentiation and neurogenesis. Protein type: Transcription factor; Cell development/differentiation Chromosomal Location of Human Ortholog: 17q12 Cellular Component: protein complex; nucleus Molecular Function: zinc ion binding; sequence-specific DNA binding; transcription corepressor activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; motor axon guidance; uterus development; forebrain regionalization; embryonic pattern specification; pronephros development; post-embryonic development; anterior/posterior pattern formation; cell-cell signaling; ectoderm formation; ureteric bud development; anatomical structure formation; cerebellum development; kidney development; fallopian tube development; cervix development; nervous system development; anatomical structure morphogenesis; vagina development; ventral spinal cord development; gastrulation with mouth forming second; embryonic viscerocranium morphogenesis; somite rostral/caudal axis specification; pattern specification process; Purkinje cell-granule cell precursor cell signaling involved in regulation of granule cell precursor cell proliferation; organ morphogenesis; telencephalon development; positive regulation of embryonic development; dorsal/ventral pattern formation; regulation of gene expression; endoderm formation; ureteric bud branching; embryonic retina morphogenesis in camera-type eye; cerebellar Purkinje cell differentiation; spinal cord association neuron differentiation; negative regulation of transcription, DNA-dependent; urogenital system development; anterior/posterior axis specification
Research Articles on LHX1	**1.** Report novel missense mutation in LHX1 in congenital absence of the uterus and vagina which could change the transcriptional activity of LHX1 and its effect on the regulation of the downstream target gene GSC.
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