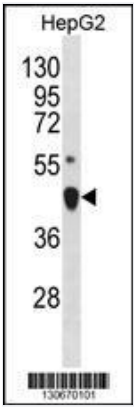
LHX4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LHX4, Polyclonal Antibody
Full Product Name	LHX4, ID (LHX4, LIM/homeobox protein Lhx4) (PE)
Product Gene Name	anti-LHX4 antibody
Product Synonym Names	LHX4; LIM/homeobox protein Lhx4
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 R-Phycoerythrin (PE).
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,124 Da
OMIM	phenotype 602146
3D Structure	ModBase 3D Structure for Q969G2
Immunogen	LHX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-161 amino acids from the Central region of human LHX4.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-LHX4 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-LHX4 antibody	Western Blot (WB), FLISA
Application Notes for anti-LHX4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LHX4 antibody	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 may function as a transcriptional regulator and be involved in control of differentiation and development of the pituitary gland. Mutations in this gene are associated with syndromic short stature and pituitary and hindbrain defects. An alternative splice variant has been described but its biological nature has not been determined.
Product References and Citations for anti-LHX4 antibody	Dateki, S., et al. J. Clin. Endocrinol. Metab. (2010). In press: Castinetti, F., et al. J. Clin. Endocrinol. Metab. 93(7):2790-2799(2008). Pfaeffle, R.W., et al. J. Clin. Endocrinol. Metab. 93(3):1062-1071(2008). Liu, S., et al. Biochem. Biophys. Res. Commun. 366(1):36-41(2008). de Bruijn, D.R., et al. Oncogene 27(5):653-662(2008).

Other Notes	Small volumes of anti-LHX4 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 LHX4 purchase	MBS6315997 is an antibody targeting LHX4. Also known as LHX4, ID (LHX4, LIM/homeobox protein Lhx4) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LHX4 antibody
LHX4 Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the LHX4 antibody detected the LHX4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LHX4. It may not necessarily be applicable to this product.

NCBI GI #	15375314
NCBI GeneID	89884
NCBI Accession #	NP_203129.1
UniProt Primary Accession #	Q969G2
UniProt Secondary Accession #	Q8NHE0; Q8NHM1; Q8TCJ1; Q8WWX2; Q969W2
UniProt Related Accession #	Q969G2
GenBank Nucleotide #	NM_033343.3
NCBI Official Full Name	LIM/homeobox protein Lhx4
NCBI Official Synonym Full Names	LIM homeobox 4
NCBI Official Symbol	LHX4
NCBI Official Synonym Symbols	CPHD4
UniProt Protein Name	LIM/homeobox protein Lhx4
Protein Family	LIM/homeobox protein
UniProt Gene Name	LHX4
UniProt Synonym Gene Names	LIM homeobox protein 4
UniProt Entry Name	LHX4_HUMAN
NCBI Protein Information	LIM/homeobox protein Lhx4; LIM homeobox protein 4
NCBI Summary for LHX4	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 involved in the control of differentiation and development of the pituitary gland. Mutations in this gene cause combined pituitary hormone deficiency 4. [provided by RefSeq, Dec 2010]

UniProt Comments for LHX4	LHX4: May play a critical role in the development of respiratory control mechanisms and in the normal growth and maturation of the lung. Defects in LHX4 are the cause of pituitary hormone deficiency combined type 4 (CPHD4); also known as short stature pituitary and cerebellar defects and small sella turcica. The disorder is characterized by short stature, pituitary and cerebellar defects, and small transverse depression crossing the midline on the superior surface of the body of the sphenoid bone which houses the pituitary gland. A chromosomal aberration involving LHX4 may be a cause of acute lymphoblastic leukemia. Translocation t(1;14)(q25;q32) with IGHG1. Protein type: Oncoprotein; DNA-binding Chromosomal Location of Human Ortholog: 1q25.2 Cellular Component: nucleus Molecular Function: zinc ion binding; sequence-specific DNA binding Biological Process: organ morphogenesis; transcription, DNA-dependent; regulation of transcription, DNA-dependent; medial motor column neuron differentiation; motor axon guidance; negative regulation of apoptosis; placenta development Disease: Pituitary Hormone Deficiency, Combined, 4
Research Articles on LHX4	**1.** Data indicate that HESX1, LHX4 and SOX3 polymorphisms may be associated with pituitary stalk interruption syndrome (PSIS).
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