LHX8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LHX8, Polyclonal Antibody
Full Product Name	LHX8, ID (LHX8, LIM/homeobox protein Lhx8) (MaxLight 550)
Product Gene Name	anti-LHX8 antibody
Product Synonym Names	LHX8; LIM/homeobox protein Lhx8
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 MaxLight550.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38,170 Da
OMIM	604425
3D Structure	ModBase 3D Structure for Q68G74
Immunogen	LHX8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the Central region of human LHX8.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-LHX8 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-LHX8 antibody	Western Blot (WB), FLISA
Application Notes for anti-LHX8 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LHX8 antibody	Members of the LIM homeobox gene family, such as LHX8, encode transcription regulators that share common structural features. They all contain 2 tandemly repeated cysteine-rich double-zinc finger motifs, called LIM domains, in addition to a homeodomain. The homeodomain is a DNA-binding domain, and the LIM domains are essential for regulating the activity of these molecules by interacting with other proteins. Members of the LIM homeobox gene family are required for the patterning or the specification and differentiation of different cell types during embryonic development (Zhao et al., 1999 [PubMed 10611327]).
Product References and Citations for anti-LHX8 antibody	Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010). Jagomagi, T., et al. Eur. J. Oral Sci. 118(3):213-220(2010). Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010): Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008). Qin, Y., et al. Fertil. Steril. 89(4):1012-1014(2008).

Other Notes	Small volumes of anti-LHX8 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 LHX8 purchase	MBS6316016 is an antibody targeting LHX8. Also known as LHX8, ID (LHX8, LIM/homeobox protein Lhx8) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LHX8. It may not necessarily be applicable to this product.

NCBI GI #	50083287
NCBI GeneID	431707
NCBI Accession #	NP_001001933.1
UniProt Primary Accession #	Q68G74
UniProt Secondary Accession #	E9PGE3
UniProt Related Accession #	Q68G74
GenBank Nucleotide #	NM_001001933.1
NCBI Official Full Name	LIM/homeobox protein Lhx8 isoform 1
NCBI Official Synonym Full Names	LIM homeobox 8
NCBI Official Symbol	LHX8
NCBI Official Synonym Symbols	LHX7
UniProt Protein Name	LIM/homeobox protein Lhx8
Protein Family	LIM/homeobox protein
UniProt Gene Name	LHX8
UniProt Synonym Gene Names	LIM homeobox protein 8
UniProt Entry Name	LHX8_HUMAN
NCBI Protein Information	LIM/homeobox protein Lhx8; LIM-homeodomain protein Lhx8
NCBI Summary for LHX8	The protein encoded by this gene is a member of the LIM homeobox family of proteins, which are involved in patterning and differentiation of various tissue types. These proteins contain two tandemly repeated cysteine-rich double-zinc finger motifs known as LIM domains, in addition to a DNA-binding homeodomain. This family member is a transcription factor that plays a role in tooth morphogenesis. It is also involved in oogenesis and in neuronal differentiation. This gene is a candidate gene for cleft palate, and it is also associated with odontoma formation. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for LHX8	LHX8: Transcription factor involved in differentiation of certain neurons and mesenchymal cells. Protein type: DNA-binding; Transcription factor; Cell development/differentiation Chromosomal Location of Human Ortholog: 1p31.1 Cellular Component: female germ cell nucleus Molecular Function: zinc ion binding; sequence-specific DNA binding Biological Process: learning and/or memory; regulation of transcription, DNA-dependent; transcription, DNA-dependent; forebrain neuron development; female gonad development; odontogenesis of dentine-containing teeth
Research Articles on LHX8	**1.** Increasing Lhx8 expression in neuronal cell lines also increased acetylcholine release.

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