DLX3 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	DLX3, Lysate
Full Product Name	Human DLX3 Protein Lysate
Product Gene Name	DLX3 lysate
Product Synonym Names	DLX3; AI4; TDO
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	23.4kDa (209aa)
OMIM	104510
3D Structure	ModBase 3D Structure for O60479
Related Product Information for DLX3 lysate	Human DLX3 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 DLX3 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 DLX3 purchase	MBS8410571 is a lysate targeting DLX3. Also known as Human DLX3 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLX3. It may not necessarily be applicable to this product.

NCBI GI #	4885185
NCBI GeneID	1747
NCBI Accession #	NP_005211
UniProt Primary Accession #	O60479
UniProt Secondary Accession #	B3KQL6
UniProt Related Accession #	O60479
GenBank Nucleotide #	NM_005220
NCBI Official Full Name	homeobox protein DLX-3
NCBI Official Synonym Full Names	distal-less homeobox 3
NCBI Official Symbol	DLX3
NCBI Official Synonym Symbols	AI4; TDO
UniProt Protein Name	Homeobox protein DLX-3
Protein Family	Distal-less-like protein

UniProt Gene Name	DLX3
UniProt Entry Name	DLX3_HUMAN
NCBI Protein Information	homeobox protein DLX-3
NCBI Summary for DLX3	Many vertebrate homeo box-containing genes have been identified on the basis of their sequence similarity with Drosophila developmental genes. Members of the Dlx gene family contain a homeobox that is related to that of Distal-less (Dll), a gene expressed in the head and limbs of the developing fruit fly. The Distal-less (Dlx) family of genes comprises at least 6 different members, DLX1-DLX6. Trichodentoosseous syndrome (TDO), an autosomal dominant condition, has been correlated with DLX3 gene mutation. This gene is located in a tail-to-tail configuration with another member of the gene family on the long arm of chromosome 17. Mutations in this gene have been associated with the autosomal dominant conditions trichodentoosseous syndrome and amelogenesis imperfecta with taurodontism. [provided by RefSeq, Jul 2008]
UniProt Comments for DLX3	DLX3: Likely to play a regulatory role in the development of the ventral forebrain. May play a role in craniofacial patterning and morphogenesis. Defects in DLX3 are a cause of trichodentoosseous syndrome (TDO). TDO is an autosomal dominant syndrome characterized by enamel hypoplasia and hypocalcification with associated strikingly curly hair. Defects in DLX3 are the cause of amelogenesis imperfecta type 4 (AI4); also known as amelogenesis imperfecta hypomaturation-hypoplastic type with taurodontism. AI4 is an autosomal dominant defect of enamel formation associated with enlarged pulp chambers. Belongs to the distal-less homeobox family. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleus Molecular Function: sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: blood vessel development; positive regulation of transcription from RNA polymerase II promoter; placenta development; odontogenesis of dentine-containing teeth Disease: Amelogenesis Imperfecta, Type Iv; Trichodentoosseous Syndrome
Research Articles on DLX3	**1.** DLX3 expression specifically modulates regulatory networks such as Wnt signaling, phosphatase activity and cell adhesion.
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