DLX3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DLX3, Polyclonal Antibody
Full Product Name	DLX3 Polyclonal Antibody
Product Gene Name	anti-DLX3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	31kDa
OMIM	104510
3D Structure	ModBase 3D Structure for O60479
Immunogen	Recombinant protein of human DLX3 (NP_005211.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DLX3 antibody	Western Blot (WB)
Application Notes for anti-DLX3 antibody	WB: 1:500-1:2000
Related Product Information for anti-DLX3 antibody	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.
Other Notes	Small volumes of anti-DLX3 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 DLX3 purchase	MBS8568677 is an antibody targeting DLX3. Also known as DLX3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

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_005211.1
UniProt Primary Accession #	O60479
UniProt Related Accession #	O60479
GenBank Nucleotide #	NP_005211.1
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
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.** miR-675 regulates the odontogenic differentiation of human dental pulp cells by epigenetic regulating DLX3.
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