10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DLX4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DLX4.
Catalog # AT1780a

Product Information

Application	WB, IP, E
Primary Accession	Q92988
Other Accession	BC016145
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1F11
Calculated MW	26263

Additional Information

Gene ID	1748
Other Names	Homeobox protein DLX-4, Beta protein 1, Homeobox protein DLX-7, Homeobox protein DLX-8, DLX4, BP1, DLX7, DLX8, DLX9
Target/Specificity	DLX4 (AAH16145, 1 a.a. ~ 98 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DLX4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

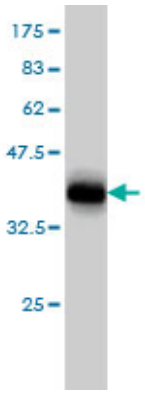
Background

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. The DLX proteins are postulated to play a role in forebrain and craniofacial development. Three transcript variants have been described for this gene, however, the full length nature of one variant has not been described. Studies of the two splice variants revealed that one encoded isoform functions as a repressor of the beta-globin gene while the other isoform lacks that function.

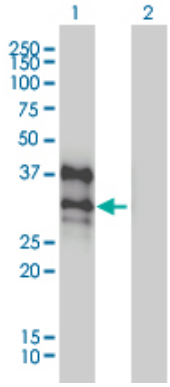
References

1.Homeodomain protein DLX4 counteracts key transcriptional control mechanisms of the TGF-?] cytostatic program and blocks the antiproliferative effect of TGF-?].Trinh BQ, Barengo N, Naora H.Oncogene. 2011 Feb 7. [Epub ahead of print]2.A homeobox gene related to Drosophila distal-less promotes ovarian tumorigenicity by inducing expression of vascular endothelial growth factor and fibroblast growth factor-2.Hara F, Samuel S, Liu J, Rosen D, Langley RR, Naora H.Am J Pathol. 2007 May;170(5):1594-606.

Images

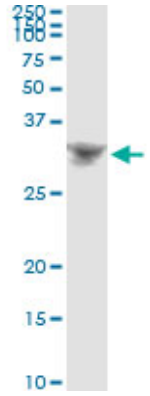


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .

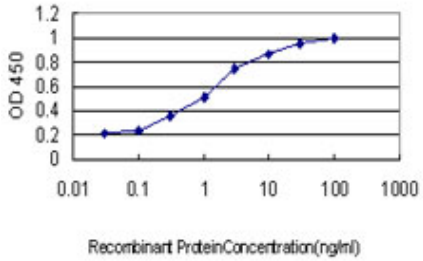


Western Blot analysis of DLX4 expression in transfected 293T cell line by DLX4 monoclonal antibody (M01), clone 1F11.

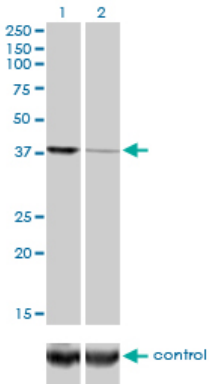
Lane 1: DLX4 transfected lysate(26 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of DLX4 transfected lysate using anti-DLX4 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with DLX4 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged DLX4 is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of DLX4 over-expressed 293 cell line, cotransfected with DLX4 Validated Chimera RNAi ((Cat # AT1780a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.