

For Research Use Only

# DLX5 Monoclonal antibody

Catalog Number: 67111-1-Ig



## Basic Information

<b>Catalog Number:</b> 67111-1-Ig	<b>GenBank Accession Number:</b> BC006226	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1749	<b>CloneNo.:</b> 1C9G1
<b>Source:</b> Mouse	<b>Full Name:</b> distal-less homeobox 5	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 32 kDa	
<b>Immunogen Catalog Number:</b> AG17040	<b>Observed MW:</b> 33-38 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

WB : PC-12 cells, A375 cells, U-251 cells, THP-1 cells,  
pig brain tissue, rat brain tissue, mouse brain tissue

IHC : mouse brain tissue,

## Background Information

DLX5 belongs to the DLX family of homeobox transcription factors (Dlx1, Dlx2, Dlx5 and Dlx6), which is expressed in overlapping domains at different stages of cell differentiation in the subpallium and controls differentiation of GABAergic neurons. DLX5 is an immediate early BMP-responsive transcriptional activator that essential for osteoblast differentiation. It can bind to and stimulate the homeodomain-response element of the ALPL and SP7 promoter. DLX5 can form homodimer with DLX2 (~34kd) and heterodimer with MSX2 (~29kd).

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

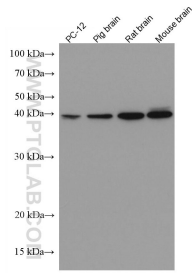
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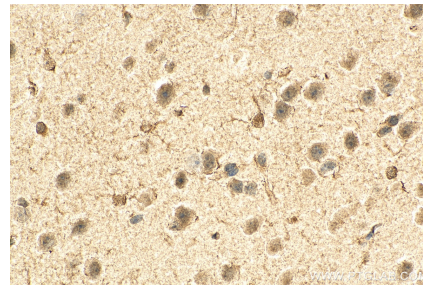
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67111-1-Ig (DLX5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67111-1-Ig (DLX5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).