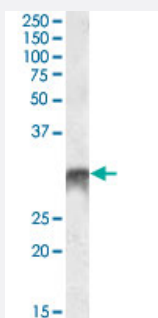


# DLX5 polyclonal antibody

Catalog # PAB13670      Size 100 ug

## Applications



### Western Blot (Tissue lysate)

DLX5 polyclonal antibody (Cat # PAB13670) (1 ug/mL) staining of human bone marrow lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

|                             |                                                                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Goat polyclonal antibody raised against synthetic peptide of DLX5.                                                                                                                                                                                                                                 |
| <b>Immunogen</b>            | A synthetic peptide corresponding to amino acids at internal region of human DLX5.                                                                                                                                                                                                                 |
| <b>Sequence</b>             | C-AYNRVPSATNQPEK                                                                                                                                                                                                                                                                                   |
| <b>Host</b>                 | Goat                                                                                                                                                                                                                                                                                               |
| <b>Theoretical MW (kDa)</b> | 31.5                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>           | Human                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>          | Approximately 30 KDa band observed in human bone marrow lysates (calculated MW of 31.5 KDa according to NP_005212.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Lee et al, J Biol Chem. 2003 Sep 5;278(36):34387-94; PMID: 12815054). |
| <b>Form</b>                 | Liquid                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>         | Antigen affinity purification                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>        | 0.5 mg/mL                                                                                                                                                                                                                                                                                          |

|                            |                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Recommend Usage</b>     | ELISA (1:32000)<br>Western Blot (1-3 ug/mL)<br>The optimal working dilution should be determined by the end user.      |
| <b>Storage Buffer</b>      | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)                                                                  |
| <b>Storage Instruction</b> | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                     |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

- Western Blot (Tissue lysate)

DLX5 polyclonal antibody (Cat # PAB13670) (1 ug/mL) staining of human bone marrow lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — DLX5

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">1749</a>                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Accession#</b> | <a href="#">NP_005212.1</a>                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | DLX5                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Alias</b>         | -                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Description</b>   | distal-less homeobox 5                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Omim ID</b>            | <a href="#">600028</a>                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Summary</b>       | This gene encodes a member of a homeobox transcription factor gene family similar to the Drosophila distal-less gene. The encoded protein may play a role in bone development and fracture healing. Mutation in this gene, which is located in a tail-to-tail configuration with another member of the family on the long arm of chromosome 7, may be associated with split-hand/split-foot malformation. [provided by RefSeq] |
| <b>Other Designations</b> | distal-less homeo box 5                                                                                                                                                                                                                                                                                                                                                                                                        |

## Publication Reference

- [DLX5 and HOXC8 enhance the chondrogenic differentiation potential of stem cells from apical papilla via LINC01013.](#)

Haoqing Yang, Yangyang Cao, Jianpeng Zhang, Yuncun Liang, Xiaomin Su, Chen Zhang, Huina Liu, Xiao Han, Lihua Ge, Zhipeng Fan.

Stem Cell Research & Therapy 2020 Jul; 11(1):271.

Application: IP, WB-Tr, Human, Stem cells from apical papilla

- [Distal-less homeobox 5 promotes the osteo-/dentinogenic differentiation potential of stem cells from apical papilla by activating histone demethylase KDM4B through a positive feedback mechanism.](#)

Yang H, Fan J, Cao Y, Gao R, Fan Z.

Experimental Cell Research 2019 Jan; 374(1):221.

Application: WB-Ce, WB-Tr, Human, HEK 293T cells, Stem cells from apical papilla

- [A novel recurrent chromosomal inversion implicates the homeobox gene Dlx5 in T-cell lymphomas from Lck-Akt2 transgenic mice.](#)

Tan Y, Timakhov RA, Rao M, Altomare DA, Xu J, Liu Z, Gao Q, Jhanwar SC, Di Cristofano A, Wiest DL, Knepper JE, Testa JR.

Cancer Research 2008 Mar; 68(5):1296.

## Disease

- [Cleft Lip](#)
- [Cleft Palate](#)