

Product datasheet

Anti-DLX3 antibody [EPR8762(2)] ab178428

Recombinant RabMAb

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Overview

Product name	Anti-DLX3 antibody [EPR8762(2)]
Description	Rabbit monoclonal [EPR8762(2)] to DLX3
Host species	Rabbit
Tested applications	Suitable for: IP, WB Unsuitable for: Flow Cyt, ICC/IF or IHC
Species reactivity	Reacts with: Rat, Human Does not react with: Mouse
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	JAR and 293T cell line lysates; Human adult and fetal skin tissue lysates; Rat skin tissue lysate.
General notes	<p>This antibody was developed through collaboration with the lab of Maria Morasso at the National Cancer Institute, NIH.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR8762(2)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178428 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/10 - 1/100.
WB		1/1000 - 1/5000. Detects a band of approximately 40 kDa (predicted molecular weight: 32 kDa).

Application notes Is unsuitable for Flow Cyt,ICC/IF or IHC.

Target

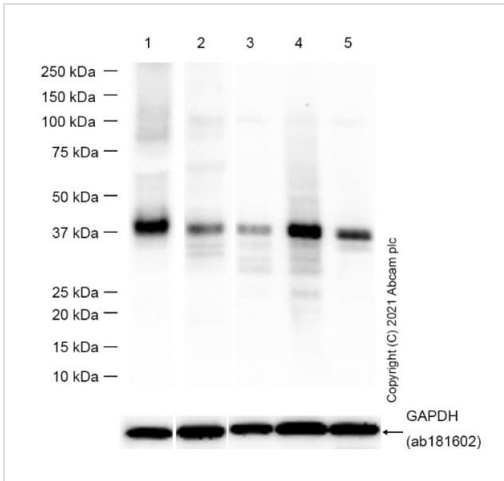
Function Likely to play a regulatory role in the development of the ventral forebrain. May play a role in craniofacial patterning and morphogenesis.

Involvement in disease Defects in DLX3 are a cause of trichodentoosseous syndrome (TDO) [MIM:190320]. 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 (A4) [MIM:104510]; also known as amelogenesis imperfecta hypomaturation-hypoplastic type with taurodontism. A4 is an autosomal dominant defect of enamel formation associated with enlarged pulp chambers.

Sequence similarities Belongs to the distal-less homeobox family.
Contains 1 homeobox DNA-binding domain.

Cellular localization Nucleus.

Images



Western blot - Anti-DLX3 antibody [EPR8762(2)] (ab178428)

All lanes : Anti-DLX3 antibody [EPR8762(2)] (ab178428) at 1/1000 dilution

Lane 1 : Mouse skin tissue lysate

Lane 2 : Rat skin tissue lysate

Lane 3 : HaCaT (Human skin keratinocyte cell) whole cell lysate

Lane 4 : JAR (Human placenta choriocarcinoma epithelial cell) (RIPA) whole cell lysate

Lane 5 : JAR (Human placenta choriocarcinoma epithelial cell) (HOT) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

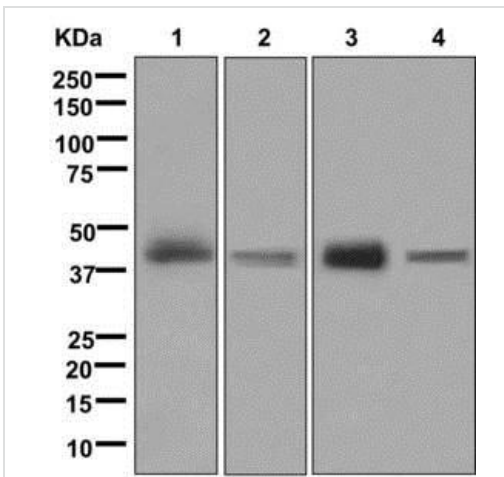
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 32 kDa

Observed band size: 40 kDa

Blocking buffer and concentration: 5% NFD/MTBST

Exposure time: Lane 1: 7 seconds, Lane 2-5: 40 seconds



Western blot - Anti-DLX3 antibody [EPR8762(2)] (ab178428)

All lanes : Anti-DLX3 antibody [EPR8762(2)] (ab178428) at 1/1000 dilution

Lane 1 : JAR cell line lysate

Lane 2 : Human skin tissue lysate

Lane 3 : Rat skin tissue lysate

Lane 4 : 293T cell line lysate

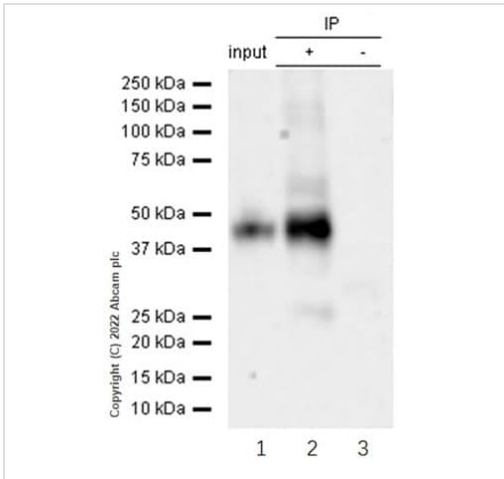
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP conjugated antibody

Developed using the ECL technique.

Predicted band size: 32 kDa



Immunoprecipitation - Anti-DLX3 antibody
[EPR8762(2)] (ab178428)

DLX3 was immunoprecipitated from Mouse skin tissue lysate with ab178428 at 1/50 dilution (2µg in 0.35mg lysate). Western blot was performed on the immunoprecipitate using ab178428 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.

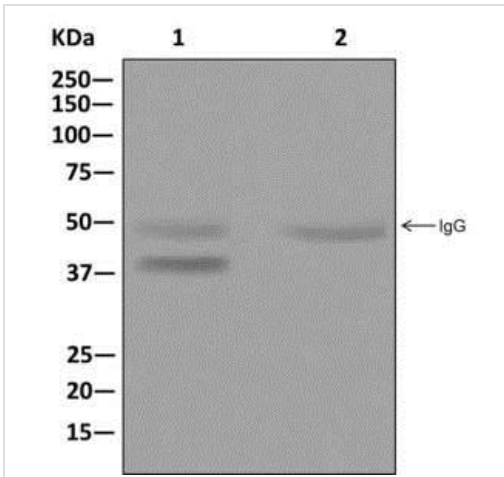
Lane 1: Mouse skin tissue lysate 10µg

Lane 2: ab178428 IP in Mouse skin tissue lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab178428 in Mouse skin tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 67 seconds.



Immunoprecipitation - Anti-DLX3 antibody
[EPR8762(2)] (ab178428)

Western blot analysis on immunoprecipitation pellet from (1) Human fetal skin lysate or (2) 1XPBS (negative control) immunoprecipitated using ab178428 with HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-DLX3 antibody [EPR8762(2)] (ab178428)

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