

Product datasheet

Anti-DBX1 antibody ab61488

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Overview

Product name	Anti-DBX1 antibody
Description	Rabbit polyclonal to DBX1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse Predicted to work with: Rat, Cow, Human
Immunogen	Synthetic peptide corresponding to Mouse DBX1 aa 100-200 conjugated to keyhole limpet haemocyanin. (Peptide available as ab103270)
Positive control	This antibody gave a positive signal in the following mouse tissue lysates: E14 Embryo Brain; E14 Embryo Spinal Cord; E16 Embryo Brain; E16 Embryo Spinal Cord; E18 Embryo Brain; E18 Embryo Spinal Cord. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: NIH-3T3.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab61488** 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
ICC/IF		Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 39 kDa (predicted molecular weight: 36 kDa).

Target

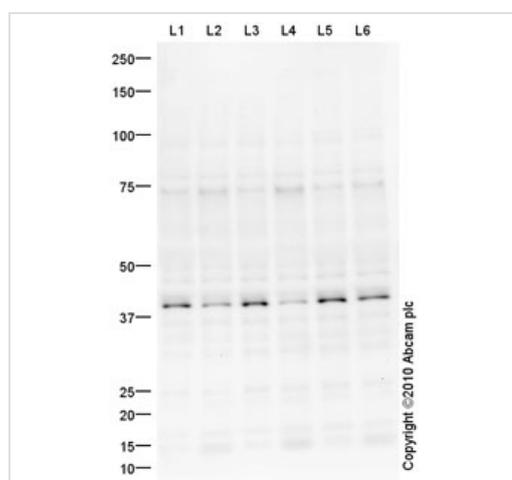
Relevance

Dbx1 homeodomain transcription factor is expressed in progenitors at the boundary between the dorsal and ventral plates of the caudal neural tube, from which postmitotic cells migrate tangentially to their final destination. Dbx1 is implicated in patterning the central nervous system during embryogenesis. Cell fate allocation and cell diversity are determined at very early stages in progenitor cells at precise coordinates along the dorsoventral and anteroposterior axis. In the spinal cord, the spatially restricted expression of Dbx1 in progenitors is critical in establishing interneuron cell fates and helps coordinate diverse phenotypic features. In the telencephalon, Dbx1 is expressed in restricted progenitor domains at the borders of the developing pallium.

Cellular localization

Nuclear

Images



Western blot - Anti-DBX1 antibody (ab61488)

All lanes : Anti-DBX1 antibody (ab61488) at 1 µg/ml

Lane 1 : E14 Mouse Embryo Brain Tissue Lysate

Lane 2 : E14 Ms Embryo Spinal Cord Tissue Lysate

Lane 3 : E16 Ms Embryo Brain Tissue Lysate

Lane 4 : E16 Ms Embryo Spinal Cord Tissue Lysate

Lane 5 : E18 Ms Embryo Brain Tissue Lysate

Lane 6 : E18 Ms Embryo Spinal Cord Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

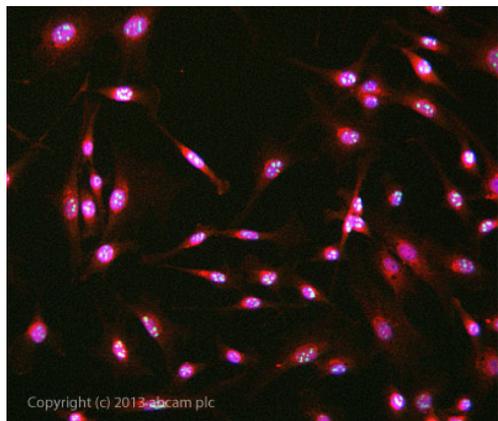
Observed band size: 39 kDa

[why is the actual band size different from the predicted?](#)

Additional bands at: 73 kDa. We are unsure as to the identity of

these extra bands.

Exposure time: 12 minutes



Immunocytochemistry/ Immunofluorescence - Anti-DBX1 antibody (ab61488)

ICC/IF image of ab61488 stained NIH-3T3 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab61488 at 1µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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