

# DBX2 (Q-13): sc-138239

## BACKGROUND

DBX2 (developing brain homeobox protein 2) is a 339 amino acid member of the H2.0 homeobox family. DBX2, which is localized to the nucleus, contains one homeobox DNA-binding domain, a region of 60 amino acids that binds DNA through a helix-turn-helix type of structure. DBX2, which is expressed in the forebrain, midbrain, hindbrain and spinal cord, has been implicated in CNS development. Specifically, DBX2 has been shown to play a role in spinal cord dorsal/ventral patterning, as well as the regionalization of the CNS. DBX2 is also thought to play a role in the production of multiple spinal cord cell types.

## REFERENCES

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- Gribble, S.L., et al. 2007. Regulation and function of DBX genes in the zebrafish spinal cord. *Dev. Dyn.* 236: 3472-3483.
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- Alavian, K.N., et al. 2009. Elevated P75NTR expression causes death of engrailed-deficient midbrain dopaminergic neurons by ERK 1/2 suppression. *Neural Dev.* 4: 11.
- Rhinn, M., et al. 2009. Zebrafish GBX1 refines the midbrain-hindbrain boundary border and mediates the Wnt-8 posteriorization signal. *Neural Dev.* 4: 12.

## CHROMOSOMAL LOCATION

Genetic locus: DBX2 (human) mapping to 12q12.

## SOURCE

DBX2 (Q-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of DBX2 of human origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138239 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-138239 X, 200 µg/0.1 ml.

## APPLICATIONS

DBX2 (Q-13) is recommended for detection of DBX2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with DBX1.

Suitable for use as control antibody for DBX2 siRNA (h): sc-96112, DBX2 shRNA Plasmid (h): sc-96112-SH and DBX2 shRNA (h) Lentiviral Particles: sc-96112-V.

DBX2 (Q-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of DBX2: 37 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.