

DBX2 Antibody

Catalog # ASC11489

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6ZNG2
Other Accession	NP_001004329 , 116174748
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	36555
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	DBX2 antibody can be used for detection of DBX2 by Western blot at 1 and 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 5 μ g/mL.

Additional Information

Gene ID	440097
Other Names	Homeobox protein DBX2, Developing brain homeobox protein 2, DBX2
Target/Specificity	DBX2; DBX2 antibody is human specific. At least two isoforms of DBX2 are known to exist; this antibody will only detect the shortest isoform.
Reconstitution & Storage	DBX2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	DBX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DBX2
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00108}.

Background

DBX2 Antibody: DBX2 is a member of the developing brain homeobox (DBX) protein family, but while the related protein DBX1 is expressed in various regions of the developing brain, DBX2 shows a more restricted pattern of expression in the brain, and is also expressed in some mesenchymal cells such as limb buds and

tooth germs. It is thought that DBX1 and DBX2 promote the development of a subset of interneurons, some of which help mediate left-right coordination of locomotor activity. In *Xenopus*, DBX2 is involved in primary neurogenesis and early neural plate patterning, and is thought to act as a cross-repressive partner of NKX6-2 in the patterning of the ventral neural tube.

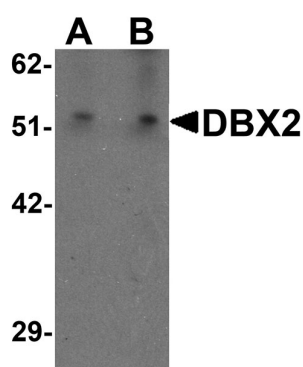
References

Shoji H, Ito T, Wakamatsu Y, et al. Regionalized expression of the Dbx family homeobox genes in the embryonic CNS of the mouse. *Mech. Dev.* 56:25-39.

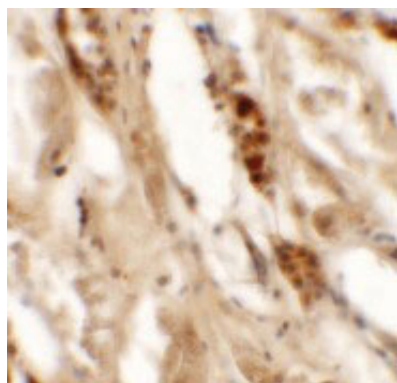
Lacin H, Zhu Y, Wilson BA, et al. Dbx mediates neuronal specification and differentiation through cross-repressive, lineage-specific interactions with eve and hb9. *Development* 2009; 136:3257-66.

Ma P, Zhao S, Zeng W, et al. *Xenopus* Dbx2 is involved in primary neurogenesis and early neural plate patterning. *Biochem. Biophys. Res. Commun.* 2011; 412:170-4.

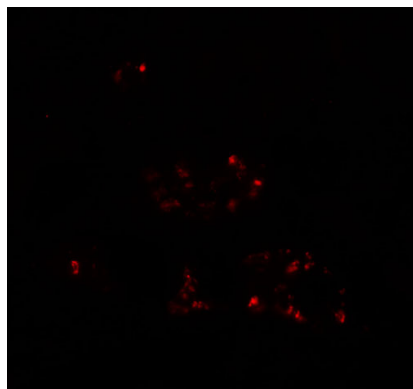
Images



Western blot analysis of WDR18 in rat lung tissue lysate with WDR18 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of DBX2 in human kidney tissue with DBX2 antibody at 5 µg/mL.



Immunofluorescence of DBX2 in human kidney tissue with DBX2 antibody at 20 µg/mL.