

DBX1 Rabbit pAb

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Catalog # AP54424

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	A6NMT0
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37283
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DBX1
Epitope Specificity	151-250/343
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	120237
Other Names	Homeobox protein DBX1, Developing brain homeobox protein 1, DBX1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DBX1
Function	Could have a role in patterning the central nervous system during embryogenesis. Has a key role in regulating the distinct phenotypic features that distinguish two major classes of ventral interneurons, V0 and V1 neurons. Regulates the transcription factor profile, neurotransmitter phenotype, intraspinal migratory path and axonal trajectory of V0 neurons, features that differentiate them from an adjacent set of V1 neurons (By similarity).
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00108}.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.