

# DCX Antibody (S128)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP2768a

## Product Information

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<b>Application</b>	IHC-P, WB, E
<b>Primary Accession</b>	<a href="#">O43602</a>
<b>Other Accession</b>	<a href="#">Q9ESI7</a> , <a href="#">O88809</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB15193
<b>Antigen Region</b>	107-137

## Additional Information

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<b>Other Names</b>	Neuronal migration protein doublecortin, Doublin, Lissencephalin-X, Lis-X, DCX, DBCN, LISX
<b>Target/Specificity</b>	This DCX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-137 amino acids from human DCX.
<b>Dilution</b>	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	DCX Antibody (S128) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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### Background

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In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. DCX is a cytoplasmic protein which appears to direct neuronal migration by regulating the organization and stability of microtubules. It contains two doublecortin domains, which bind microtubules. In addition, this protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase, and this interaction is important to proper microtubule function in the developing cortex.

Mutations in the gene encoding DCX are a cause of X-linked lissencephaly.

## References

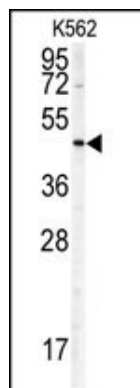
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Leger, P.L., Neurogenetics (2008)

Zhang, Y., Biochem. Biophys. Res. Commun. 363 (3), 694-700 (2007)

## Images

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Western blot analysis of anti-DCX Antibody (S128) (Cat.#AP2768a) in K562 cell line lysates (35ug/lane). DCX (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with DCX Antibody (S128) (Cat.#AP2768a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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