

# Goat anti-Doublecortex / DCX Antibody

Peptide-affinity purified goat antibody

Catalog # AF4500a

## Product Information

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<b>Application</b>	WB, IF, Pep-ELISA
<b>Primary Accession</b>	<a href="#">O43602</a>
<b>Other Accession</b>	<a href="#">NP_000546.2</a> , <a href="#">NP_835365.1</a> , <a href="#">NP_835364.1</a> , <a href="#">NP_835366.1</a>
<b>Reactivity</b>	Human, Mouse, Rat, Cat, Dog
<b>Host</b>	Goat
<b>Clonality</b>	Polyclonal
<b>Clone Names</b>	DCX
<b>Calculated MW</b>	40574

## Additional Information

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<b>Gene ID</b>	1641
<b>Other Names</b>	DCX ; doublecortex; lissencephaly; X-linked (doublecortin) ; RP5-914P14.1; DBCN; DC; LISX; SCLH; XLIS ; OTTHUMP00000062892; doublecortin; doublin; lissencephalin-X
<b>Dilution</b>	WB~~1:1000 IF~~1:50~200 Pep-ELISA~~N/A
<b>Format</b>	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
<b>Immunogen</b>	This antibody is expected to recognise isoform a (NP_000546.2), isoform b (NP_835365.1), and isoform c (NP_835364.1 and NP_835366.1).
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Goat anti-Doublecortex / DCX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	DCX
<b>Synonyms</b>	DBCN, LISX
<b>Function</b>	Microtubule-associated protein required for initial steps of neuronal dispersion and cortex lamination during cerebral cortex development. May act by competing with the putative neuronal protein kinase DCLK1 in binding

to a target protein. May in that way participate in a signaling pathway that is crucial for neuronal interaction before and during migration, possibly as part of a calcium ion-dependent signal transduction pathway. May be part with PAFAH1B1/LIS-1 of overlapping, but distinct, signaling pathways that promote neuronal migration.

**Cellular Location**

Cytoplasm. Cell projection, neuron projection  
{ECO:0000250|UniProtKB:Q9ESI7}. Note=Localizes at neurite tips.  
{ECO:0000250|UniProtKB:Q9ESI7}

**Tissue Location**

Highly expressed in neuronal cells of fetal brain (in the majority of cells of the cortical plate, intermediate zone and ventricular zone), but not expressed in other fetal tissues. In the adult, highly expressed in the brain frontal lobe, but very low expression in other regions of brain, and not detected in heart, placenta, lung, liver, skeletal muscles, kidney and pancreas

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