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Goat anti-Doublecortex / DCX Antibody

Peptide-affinity purified goat antibody
Catalog # AF4500a

Product Information

Application	WB, IF, Pep-ELISA
Primary Accession	O43602
Other Accession	NP_000546.2, NP_835365.1, NP_835364.1, NP_835366.1
Reactivity	Human, Mouse, Rat, Cat, Dog
Host	Goat
Clonality	Polyclonal
Clone Names	DCX
Calculated MW	40574

Additional Information

Gene ID	1641
Other Names	DCX ; doublecortex; lissencephaly; X-linked (doublecortin) ; RP5-914P14.1; DBCN; DC; LISX; SCLH; XLIS ; OTTHUMP00000062892; doublecortin; doublin; lissencephalin-X
Dilution	WB~~1:1000 IF~~1:50~200 Pep-ELISA~~N/A
Format	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.
Immunogen	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).
Storage	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.
Precautions	Goat anti-Doublecortex / DCX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DCX
Synonyms	DBCN, LISX
Function	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'.