

Goat anti-Doublecortex / DCX Antibody
Peptide-affinity purified goat antibody
Catalog # AF4500a**Specification**

Goat anti-Doublecortex / DCX Antibody - 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
Calculated MW	40574

Goat anti-Doublecortex / DCX Antibody - 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

DilutionWB~~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.

Goat anti-Doublecortex / DCX Antibody - 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

Goat anti-Doublecortex / DCX Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat anti-Doublecortex / DCX Antibody - Images