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DCX Antibody

Rabbit mAb
Catalog # AP91052

Product Information

Application	WB, FC
Primary Accession	O43602
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	DCX; DBCN; DC; LISX; SCLH; XLIS ; Doublin; doublecortin;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	40574

Additional Information

Dilution	WB 1:500~1:2000 FC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human DCX
Description	Mutations in Doublecortin cause Lissencephaly (smooth brain), a neuronal migration disorder characterized by epilepsy and mental retardation. Doublecortin is a microtubule associated protein that stabilizes and bundles microtubules. A conserved doublecortin domain mediates the interaction with microtubules, and interestingly most missense mutations cluster in this domain.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

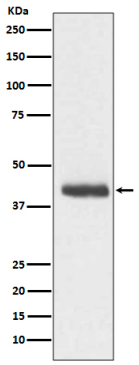
Name	DCX
Synonyms	DBCN, LISX
Function	Microtubule-associated protein required for initial steps of neuronal dispersion and cortex lamination during cerebral cortex development. May act by competing with the putative neuronal protein kinase DCLK1 in binding to a target protein. May in that way participate 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

Images



Western blot analysis of DCX expression in C6 cell lysate.