

Product Datasheet

DCX Antibody

Catalog No: CY6621

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB FC



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Information

UniProt ID: O43602

All Names: DCX; DBCN; DC; LISX; SCLH; XLIS ; Dublin; doublecortin;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 45 kDa

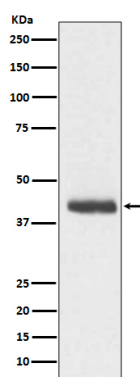
Application

WB 1:500~1:2000

FC 1:50~1:200

Background

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. Kinases JNK, CDK5 and PKA phosphorylate doublecortin. JNK phosphorylates Thr321, Thr331 and Ser334 while PKA phosphorylates Ser47 and CDK5 phosphorylates Ser297. Phosphorylation of Ser297 lowers the affinity of doublecortin to microtubules. Furthermore, mutations of Ser297 result in migration defects.



Western blot analysis of DCX expression in C6 cell lysate.

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