

DCX

Reactivity: Human Mouse

Tested applications: WB IHC

Recommended Dilution: WB 1:200 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 45kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human DCX

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

d

Synonym:

DC; DBCN; LISX; SCLH; XLIS;

Catalog #: A0149

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1641

Isotype: IgG

Swiss Prot: O43602

Purity: Affinity purification

For research use only.

Background:

This gene encodes a member of the doublecortin family. The protein encoded by this gene is a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase, and this interaction is important to proper microtubule function in the developing cortex. Mutations in this gene cause abnormal migration of neurons during development and disrupt the layering of the cortex, leading to epilepsy, mental retardation, subcortical band heterotopia ("double cortex" syndrome) in females and lissencephaly ("smooth brain" syndrome) in males. Multiple transcript variants encoding different isoforms have been found for this gene.

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