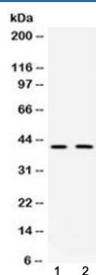


DCX Antibody / Doublecortin (R32599)

Catalog No.	Formulation	Size
R32599	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	O43602
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml
Limitations	This DCX antibody is available for research use only.



Western blot testing of 1) rat brain and 2) mouse brain with DCX antibody at 0.5ug/ml.
Predicted molecular weight: 40-50 kDa.

Description

Neuronal migration protein Doublecortin, also known as Dublin or Lissencephalin-X, is a protein that in humans is encoded by the DCX gene. 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.

Application Notes

Optimal dilution of the DCX antibody should be determined by the researcher.

Immunogen

Amino acids 74-100 (QSLRFHQNMELDFGHFDERDKTSRNMR-human) were used as the immunogen for the DCX antibody.

Storage

After reconstitution, the DCX antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.