## DCX Polyclonal Antibody

Cat \#: G-AB-04736

| Host: Rabbit | Reactivity: Human |
| :--- | :--- |
| Isotype: IgG | Clonality: Polyclonal |


#### Abstract

Overview: 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, cognitive disability, 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.


## Gene ID:

Accession \#: NP000546

Immunogen: Synthetic peptide of human DCX

Conjugation: Unconjugated

Swissprot: 043602

Calculated Molecular Weight: 49 kDa
Observed Molecular Weight: Refer to figures

Concentration: $1.3 \mathrm{mg} / \mathrm{mL}$

Buffer: PBS with 0.05\% NaN3 and 40\% Glycerol, pH7.4

Purification Method: Antigen affinity purification

Application: WB,IHC,ELISA
Dilution: WB 1:500-1:2000, IHC 1:25-1:100, ELISA 1:5000-1:10000

Storage: Store at $-20^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles.

