

## Product datasheet for **TA346007**

### Doublecortin (DCX) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	IHC, WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-DCX antibody: synthetic peptide directed towards the C terminal of human DCX. Synthetic peptide located within the following region: PEKFRYAQDDFSLDENECRVMKGNPSATAGPKASPTPQKTSAKSPGPMRR
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40 kDa
Gene Name:	doublecortin
Database Link:	<a href="#">NP_835365</a> <a href="#">Entrez Gene 13193 Mouse</a> <a href="#">O43602</a>



[View online »](#)

**Background:**

In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. DCX is a cytoplasmic protein which appears to direct neuronal migration by regulating the organization and stability of microtubules. The protein contains two doublecortin domains, which bind microtubules. In addition, DCX 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. In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The protein encoded by this gene is a cytoplasmic protein which appears to direct neuronal migration by regulating the organization and stability of microtubules. The encoded protein contains two doublecortin domains, which bind 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 are a cause of X-linked lissencephaly. Multiple transcript variants encoding at least three different isoforms have been found for this gene.

**Synonyms:**

DBCN; DC; LISX; SCLH; XLIS

**Note:**

Immunogen Sequence Homology: Rat: 100%; Human: 100%; Mouse: 100%; Dog: 93%; Pig: 93%; Horse: 93%; Bovine: 93%; Rabbit: 93%; Guinea pig: 93%

**Protein Families:**

Druggable Genome

**Product images:**

WB Suggested Anti-DCX Antibody Titration: 0.2-1 ug/ml; Positive Control: HepG2 cell lysate

## DCX



Red: DCX Blue:DAPI

Sample Type: Mouse spinal cord Primary Antibody Dilution: 1: 300; Secondary Antibody: Anti-rabbit-Alexa 594; Secondary Antibody Dilution: 1: 500; Color/Signal Descriptions: Red: DCX Blue: DAPI; Gene Name: DCX; Submitted by: Anonymous