Datasheet for ABIN2776750

# anti-Doublecortin antibody (C-Term)

2 Images

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | Doublecortin (DCX) |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Doublecortin antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the C terminal region of human DCX |
| Sequence: | PEKFRYAQDD FSLDENECRV MKGNPSATAG PKASPTPQKT SAKSPGPMRR |
| Predicted Reactivity: | Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100% |
| Characteristics: | This is a rabbit polyclonal antibody against DCX. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

## Target Details

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|---|---|
| Target: | Doublecortin (DCX) |

## Target Details

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| Alternative Name: | DCX (DCX Products) |
| 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.<br>Alias Symbols: DBCN, DC, LISX, SCLH, XLIS<br>Protein Interaction Partner: KIFC3, GOLGA2, TRIM23, KRTAP10-8, KRT40, RINT1, MID2, SPAG5, IKZF1, CALCOCO2, ZBTB5, TRIM27, MEOX1, FBXO25, APP, PPP1R9B, PPP1CA, PAFAH1B1, ACD, TINF2, POT1, TERF1, SPP1, USP9X, NFASC, TRIM39, AP1M1, AP2M1, DCX, CDK5,<br>Protein Size: 365 |
| Molecular Weight: | 40 kDa |
| Gene ID: | 1641 |
| NCBI Accession: | NM_178152, NP_835365 |
| UniProt: | O43602 |

## Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 365 AA |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |

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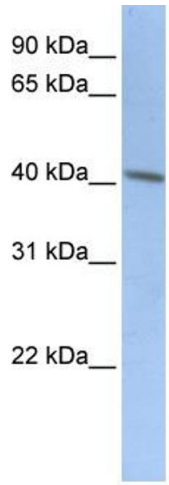
## Handling

| | |
|---|---|
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Images




**Western Blotting**

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

DCX

Red: DCX Blue:DAPI

See IHC 1 Data and customer Feedback for more Information

**Immunohistochemistry**

**Image 2.** 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