

Datasheet for ABIN2776749

anti-Doublecortin antibody (C-Term)[Go to Product page](#)**1** Image

Overview

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

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human DCX
Sequence:	TAGPKASPTP QKTSAKSPGP MRRSKSPADS ANGTSSSQLS TPKSKQSPIS
Predicted Reactivity:	Dog: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 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

Target:	Doublecortin (DCX)
Alternative Name:	DCX (DCX Products)

Target Details

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. Alias Symbols: DBCN, DC, LISX, SCLH, XLIS 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, Protein Size: 441
-------------	--

Molecular Weight:	49 kDa
-------------------	--------

Gene ID:	1641
----------	------

NCBI Accession:	NM_000555 , NP_000546
-----------------	---

UniProt:	O43602
----------	------------------------

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
--------------------	--

Comment:	Antigen size: 441 AA
----------	----------------------

Restrictions:	For Research Use only
---------------	-----------------------

Handling

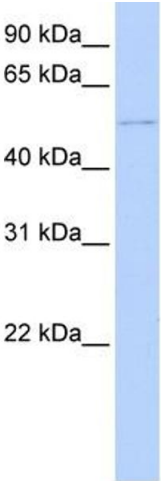
Format:	Liquid
---------	--------

Concentration:	Lot specific
----------------	--------------

Handling

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: 293T cell lysate