

**Anti-Doublecortin Antibody**

**Our Anti-Doublecortin primary antibody from PhosphoSolutions is mouse monoclonal. It detects bovine,  
Catalog # AN1367**

**Specification**

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**Anti-Doublecortin Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O43602</a>
Reactivity	Bovine, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2A
Calculated MW	40574

**Anti-Doublecortin Antibody - Additional Information**

Gene ID **1641**

**Other Names**

DBCN antibody, Dbct antibody, DC antibody, DCX antibody, DCX\_HUMAN antibody, Doublecortex antibody, Doublin antibody, FLJ51296 antibody, Lis X antibody, Lis-X antibody, Lissencephalin X antibody, Lissencephalin-X antibody, Lissencephaly X linked antibody, Lissencephaly X linked doublecortin antibody, LISX antibody, Neuronal migration protein doublecortin antibody, OTTHUMP00000023859 antibody, OTTHUMP00000023860 antibody, OTTHUMP000000216315 antibody, OTTHUMP000000216316 antibody, SCLH antibody, XLIS antibody

**Target/Specificity**

Doublecortin, or DCX, is a microtubule associated protein that is expressed almost exclusively in very early neuronal development (Brown et al., 2003), making it an excellent marker for developing neuronal cells. Defects in the DCX gene lead to X-linked lissencephaly which is characterized by a lack of normal folds on the surface of the brain resulting in a smooth cerebral cortex caused by abnormal migration of neurons during development (des Portes et al., 1998; Gleeson et al., 1998).

**Dilution**

WB~~1:1000  
IHC~~1:100~500

**Format**

Protein G Purified

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Doublecortin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

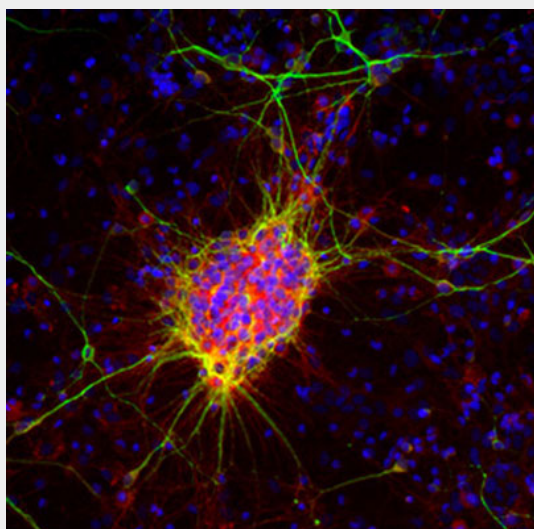
Blue Ice

### Anti-Doublecortin Antibody - Protocols

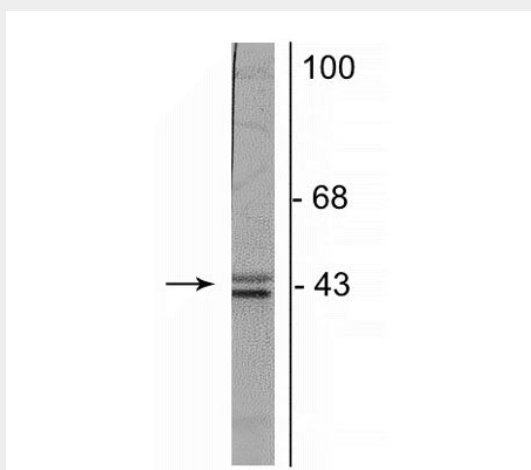
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

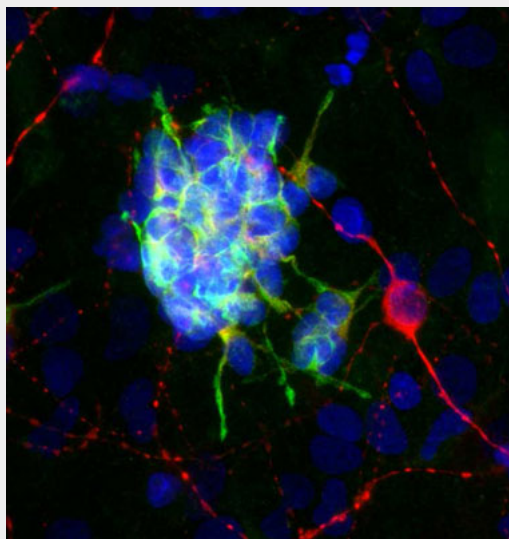
### Anti-Doublecortin Antibody - Images



Immunofluorescence of rat cortical neuron-glia cells showing strong cytoplasmic labeling of a small population of developing neurons and their processes with Anti-DCX (cat. 451-DCX, 1:1000, red) while Anti-MAP2 (cat. 1100-MAP2, 1:10,000, green) labels dendrites and perikarya of mature neurons, and additional nuclear staining was done with DAPI (blue). Anti-doublecortin is an excellent marker of early developing neuronal cells.



Western blot of postnatal day 3 rat brain lysate showing specific immunolabeling of the ~35 kDa and ~45 kDa doublecortin protein.



Immunofluorescence of cultured rat neurons showing strong cytoplasmic staining of doublecortin (cat. 451-DCX, 1:1000, green) in developing neurons and GFAP (cat. 621-GFAP, 1:1000, red)

#### **Anti-Doublecortin Antibody - Background**

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