10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Doublecortin Antibody

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

Catalog # AN1367

Specification

Anti-Doublecortin Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O43602
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, OTTHUMP00000216315 antibody, OTTHUMP00000216316 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

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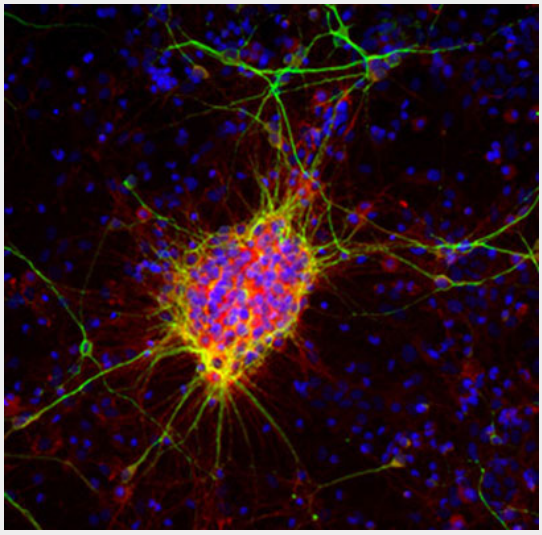
Blue Ice

Anti-Doublecortin Antibody - Protocols

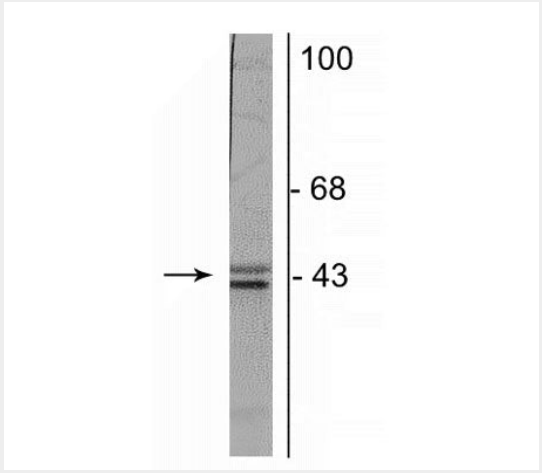
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Doublecortin Antibody - Images



Immunofluorescence of rat cortical neuron-glial 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 or mature neurons, and additional nuclear staining was done with DAPI (blue). Anti-doublecortin is an excellent marker of early developing neuronal cells.



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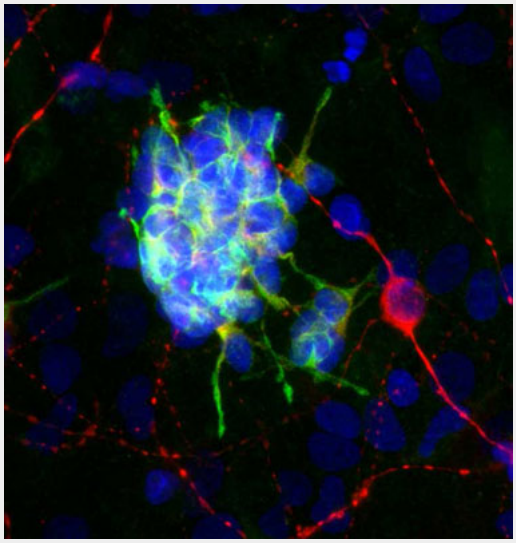
Western blot of postnatal day 3 rat brain lysate showing specific immunolabeling of the ~35 kDa and ~45 kDa doublecortin protein.



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

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).