

**Doublecortin (mouse) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3809a****Specification**

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**Doublecortin (mouse) Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O43602</a>
Other Accession	<a href="#">NP_001103692.1</a> , <a href="#">NP_001103694.1</a> , <a href="#">NP_034155.2</a> , <a href="#">1641</a> , <a href="#">13193 (mouse)</a> , <a href="#">84394 (rat)</a>
Reactivity	Mouse
Predicted	Human, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	40574

**Doublecortin (mouse) Antibody (internal region) - Additional Information****Gene ID** 1641**Other Names**

Neuronal migration protein doublecortin, Dublin, Lissencephalin-X, Lis-X, DCX, DBCN, LISX

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**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**

Doublecortin (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Doublecortin (mouse) Antibody (internal region) - Protein Information****Name** DCX**Synonyms** DBCN, LISX

**Function**

Microtubule-associated protein required for initial steps of neuronal dispersion and cortex lamination during cerebral cortex development. May act by competing with the putative neuronal protein kinase DCLK1 in binding to a target protein. May in that way participate in a signaling pathway that is crucial for neuronal interaction before and during migration, possibly as part of a calcium ion-dependent signal transduction pathway. May be part with PAFAH1B1/LIS-1 of overlapping, but distinct, signaling pathways that promote neuronal migration.

**Cellular Location**

Cytoplasm. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q9ESI7}. Note=Localizes at neurite tips. {ECO:0000250|UniProtKB:Q9ESI7}

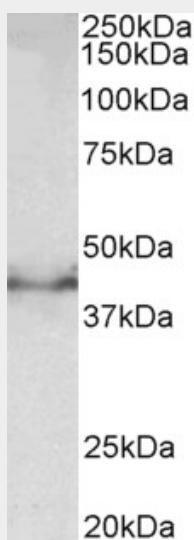
**Tissue Location**

Highly expressed in neuronal cells of fetal brain (in the majority of cells of the cortical plate, intermediate zone and ventricular zone), but not expressed in other fetal tissues. In the adult, highly expressed in the brain frontal lobe, but very low expression in other regions of brain, and not detected in heart, placenta, lung, liver, skeletal muscles, kidney and pancreas

**Doublecortin (mouse) Antibody (internal region) - 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](#)

**Doublecortin (mouse) Antibody (internal region) - Images**

AF3809a (0.5 µg/ml) staining of Mouse fetal Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Doublecortin (mouse) Antibody (internal region) - Background**

This antibody is expected to recognize all reported mouse isoforms (NP\_001103692.1; NP\_001103694.1; NP\_034155.2). Reported variants represent identical protein: NP\_001103692.1, NP\_001103693.1

#### **Doublecortin (mouse) Antibody (internal region) - References**

Properties of doublecortin-(DCX)-expressing cells in the piriform cortex compared to the neurogenic dentate gyrus of adult mice. Klempin F, Kronenberg G, Cheung G, Kettenmann H, Kempermann G. PLoS One. 2011;6(10):e25760. PMID: 22022443