

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

Specification

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

Application	WB
Primary Accession	O43602
Other Accession	NP_001103692.1 , NP_001103694.1 , NP_034155.2 , 1641 , 13193 (mouse) , 84394 (rat)
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

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 PFAH1B1/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

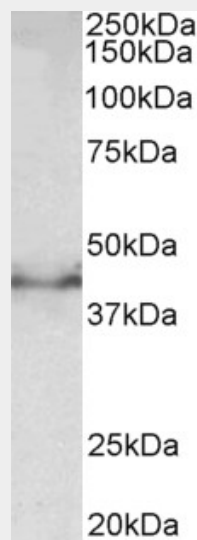
Highly expressed in neuronal cells of fetal brain (in the majority of cells of the cortical plate, intermediate zone and ventricular zone), but not expressed in other fetal tissues. In the adult, highly expressed in the brain frontal lobe, but very low expression in other regions of brain, and not detected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