

Anti-Doublecortin (DCX) Antibody



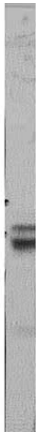
Product Details

Available Variants	100 µg (SKU:M-1648-100)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	3E1
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, WB
Dilution Ranges	WB: 1:500-1:2000 ICC: 1:500-1:1000
Species Reactivity	Bovine, Human, Mouse, Rat
Immunogen	Full length recombinant human Lis-A isoform of Doublecortin purified from E. coli.
Specificity	The antibody reacts with two bands at ~45 kDa and ~35 kDa which shows that the mouse anti-DCX antibody binds to an epitope in the region of DCX shared by Lis-A, and Lis-B, Lis-C and Lis-D, the C terminal 360 amino acids of Lis-A. It has also been used successfully for immunocytochemistry and is an excellent marker for developing neurons.
Molecular Weight	~45 kDa and ~35 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any

insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.

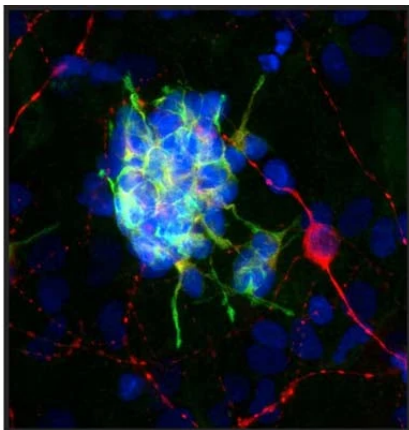
UniProt ID	<u>O43602</u>
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images

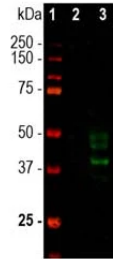
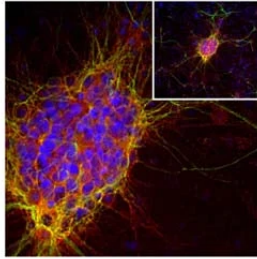


45kDa>
40kDa>

Rat brain extract from a postnatal 3 day animal. Two bands at ~45 kDa and ~35 kDa show that the mouse anti-DCX antibody binds to an epitope in the region of DCX shared by Lis-A, and Lis-B, Lis-C and Lis-D, the C terminal 360 amino acids of Lis-A.



Rat brain neural cultures stained with mouse anti-DCX (green), chicken polyclonal antibody to MAP2 (Catalog Number C-1382-50) (red) and DNA (blue). The mouse anti-DCX antibody (Catalog Number M-1648-100) reveals strong cytoplasmic staining in a population of small developing neurons. These cells are often found in small clumps as in these cultures, as in this example. Note that they are not positive for MAP2, which is characteristic of more mature neurons, and that the mature neuron shown is negative for DCX. This DCX antibody is therefore an excellent marker of developing neuronal cells.



Left: Analysis of doublecortin expression in cortical neuron-glia cell culture from E20 rat by **Immunocytochemistry**. Cells were stained with mouse antibody to doublecortin (red, 1:1,000) and chicken anti-MAP2 antibody (C-1382-50, green, 1:10,000). Blue: DAPI nuclear stain. The doublecortin antibody reveals strong cytoplasmic staining in a population of small developing neurons and their processes, while the MAP2 antibody stains dendrites and perikarya of mature neurons. Doublecortin antibody is an excellent marker of early developing neuronal cells. **Right: Western blot** analysis of doublecortin expression rat whole brain (green, 1:1,000). [1] protein standard, [2] adult brain, [3] embryonic E20 brain. Strong bands at 40 kDa and 45 kDa correspond to the doublecortin protein, detected only in the developing brain.

Product Page URL: www.antibodiesinc.com/products/anti-doublecortin-dcx-antibody-m-1648-100



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