

Product Datasheet

Doublecortin Antibody (3E1) - BSA Free NBP1-92684

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-92684

Doublecortin Antibody (3E1) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3E1
Preservative	5mM Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	35-45 kDa

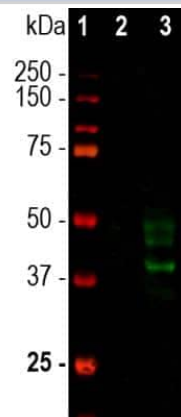
Product Description	
Description	Novus Biologicals Mouse Doublecortin Antibody (3E1) - BSA Free (NBP1-92684) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Doublecortin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	1641
Gene Symbol	DCX
Species	Human, Mouse, Rat
Marker	Immature Neuronal Marker
Immunogen	Recombinant full length human Lis-A isoform of Doublecortin purified from E. coli. [UniProt# O43602]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000
Application Notes	This Doublecortin (3E1) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot, where bands can be seen at approximately 35 and 45 kDa.

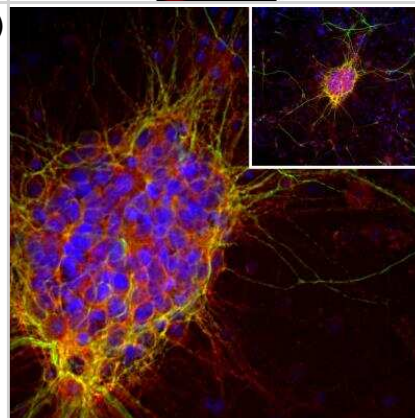


Images

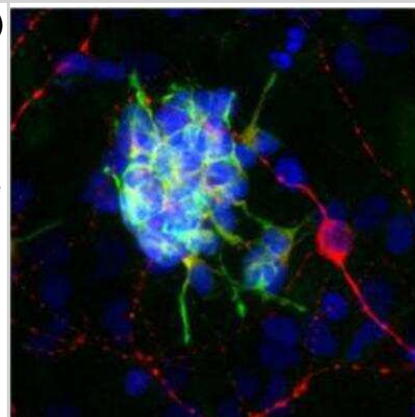
Western Blot: Doublecortin Antibody (3E1) [NBP1-92684] - Analysis of rat whole brain lysates using mouse mAb to Doublecortin (DCX), NBP1-92684, dilution 1:1,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic E20 rat brain. Strong bands at 40, 45kDa correspond to DCX protein, detected only in the developing brain.



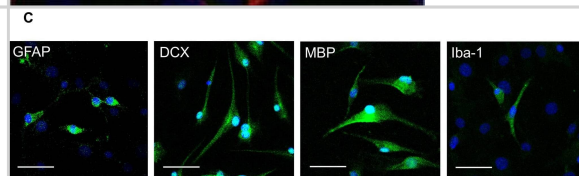
Immunocytochemistry/Immunofluorescence: Doublecortin Antibody (3E1) [NBP1-92684] - Analysis of cortical neuron-glia cell culture from E20 rat stained with mouse mAb to Doublecortin (DCX), NBP1-92684, dilution 1:1,000 in red, and costained with chicken pAb to Microtubule Associated Protein2 (MAP2), dilution 1:10,000 in green. The blue is DAPI staining of nuclear DNA. DCX antibody reveals strong cytoplasmic staining in a population of small developing neurons and their processes, while MAP2 antibody stains dendrites and perikarya of mature neurons. Therefore DCX antibody is an excellent marker of developing neuronal cells.



Immunocytochemistry/Immunofluorescence: Doublecortin Antibody (3E1) [NBP1-92684] - Rat brain neural cultures stained with NBP1-92684 (green), a chicken polyclonal antibody to GFAP (NB300-213, red) and DNA (blue). The NBP1-92684 antibody 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 NBP1-92684. This Doublecortin antibody is therefore an excellent marker of developing neuronal cells.



Experimental flow diagram and culture of HAP stem cells.(B) Procedure for culture and colonization of HAP stem cells. Bar = 200 μ m. (C) Immunofluorescence staining shows that the cultured HAP stem cell colonies differentiated to GFAP-positive astrocytes, DCX-positive neurons, MBP-positive oligodendrocytes and Iba-1-positive microglia on Lab-Tek chamber slides. Green = GFAP, DCX, MBP or Iba-1; Blue = DAPI. Bar = 50 μ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36638123>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Bustamante-Barrientos F, Lara-Barba E, Herrera-Luna Y et al. Mitochondria-derived reactive oxygen species induce over-differentiation of neural stem/progenitor cells after non-cytotoxic cisplatin exposure *Frontiers in Cell and Developmental Biology* 2025-04-29 [PMID: 40365018]

Obara K, Shirai K, Hamada Y et al. Direct implantation of hair-follicle-associated pluripotent (HAP) stem cells repairs intracerebral hemorrhage and reduces neuroinflammation in mouse model *PloS one* 2023-01-13 [PMID: 36638123] (ICC/IF, Mouse)

Details:

Dilution used in IHC-P 1:1000

Kubis-Kubiak A, Wiatrak B, Piwowar A. Et al. Hyper-glycemia and insulinemia induce morphological changes and modulate secretion of S100B, S100A8, amyloid b 1-40 and amyloid b 1-42, in a model of human dopaminergic neurons *Biomed Pharmacother* 2022-10-18 [PMID: 36257211] (ICC/IF, Rat)

Details:

Citation using the DyLight 488 version of this antibody.





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Products Related to NBP1-92684

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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