

# Product Datasheet

## Doublecortin Antibody NBP1-72042

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-72042**

## Doublecortin Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	1641
Gene Symbol	DCX
Species	Human, Mouse, Rat
Marker	Immature Neuronal Marker
Specificity/Sensitivity	This antibody is expected to recognize all four reported isoforms (NP_000546.2; NP_835365.1; NP_835364.1; NP_001182482.1). Reported variants represent identical protein: NP_835364.1 and NP_835366.1.
Immunogen	Peptide with sequence C-KTSANMKAPQS corresponding to internal region according to NP_835365.1, NP_835364.1, NP_001182482.1.

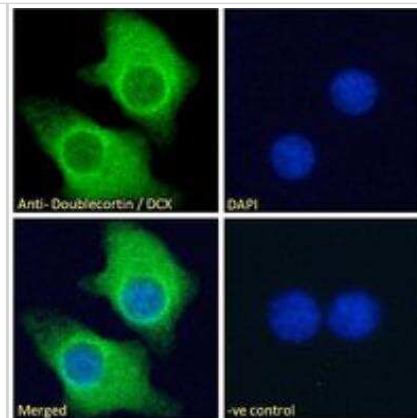
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.01 - 0.03 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 5 - 10 ug/mL, Immunohistochemistry-Paraffin 2 - 4 ug/mL, Peptide ELISA Detection limit 1:32000
Application Notes	Western blot: Approx 45 kDa band observed in Mouse fetal Brain lysates (calculated MW of 49.3 kDa according to Mouse NP_001103692.1). IHC: In paraffin embedded Human Cerebellum shows axonal and incidental nuclear staining. Immunofluorescence: Strong expression of the protein seen in the cytoplasm of HepG2 and KNRK cells.

**Images**

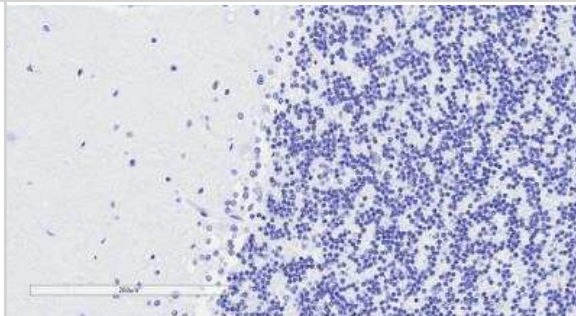
Western Blot: Doublecortin Antibody [NBP1-72042] - staining of Mouse fetal Brain lysate (35 ug protein in RIPA buffer). Antibody at 0.01 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

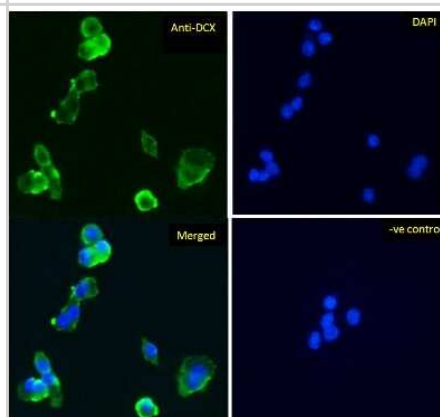
**Immunocytochemistry/Immunofluorescence: Doublecortin Antibody [NBP1-72042]** - Immunofluorescence analysis of paraformaldehyde fixed KNRK cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



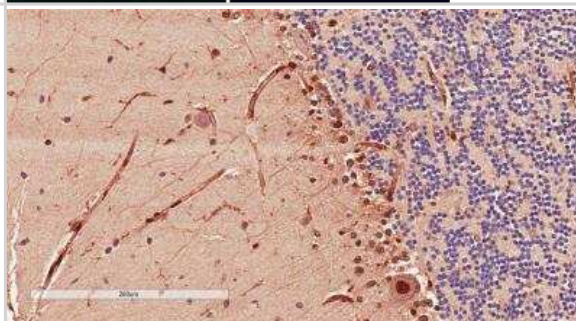
**Immunohistochemistry-Paraffin: Doublecortin Antibody [NBP1-72042]** - Negative Control showing staining of paraffin embedded Human Cerebellum, with no primary antibody.



**Immunocytochemistry/Immunofluorescence: Doublecortin Antibody [NBP1-72042]** - Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL).



**Immunohistochemistry-Paraffin: Doublecortin Antibody [NBP1-72042]** - Staining of paraffin embedded Human Cerebellum. Antibody at 2 ug/mL. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.



## Publications

Juliana Campo Garcia, Roemel Jeusep Bueno, Maren Salla, Ivette Martorell-Serra, Bibiane Seeger, Nilufar Akbari, Pia Sperber, Harald Stachelscheid, Carmen Infante-Duarte, Friedemann Paul, Sarah C. Starossom Establishment of a high-content compatible platform to assess effects of monocyte-derived factors on neural stem cell proliferation and differentiation *Scientific Reports* 2024-05-28 [PMID: 38806485]

Jiménez-Madrona E, Morado-Díaz CJ, Talavera R et al. Antiproliferative effect of boldine on neural progenitor cells and on glioblastoma cells *Frontiers in Neuroscience* 2023-08-16 [PMID: 37655012] (Immunohistochemistry)

O'Donnell Jc, Purvis Em, Helm Kvt Et Al. An implantable human stem cell-derived tissue-engineered rostral migratory stream for directed neuronal replacement *Communications biology* 2021-07-15 [PMID: 34267315] (IF/IHC)

Evangelisti C, Florian MC, Massimi I et al. MiR-128 up-regulation inhibits Reelin and DCX expression and reduces neuroblastoma cell motility and invasiveness. *FASEB J* 2009-12-01 [PMID: 19713529]





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### Products Related to NBP1-72042

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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00001641-P01-10ug	Recombinant Human Doublecortin GST (N-Term) Protein

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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