

For Research Use Only

# DCX Polyclonal antibody

Catalog Number: 13925-1-AP

Featured Product

45 Publications



## Basic Information

### Catalog Number:

13925-1-AP

### Concentration:

600 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4945

### GenBank Accession Number:

BC027925

### GeneID (NCBI):

1641

### UNIPROT ID:

O43602

### Full Name:

doublecortin

### Calculated MW:

402 aa, 45 kDa

### Observed MW:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

IHC: 1:50-1:500

IF-P: 1:50-1:500

IF-Fro: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, hamster

### Positive Controls:

WB: SH-SY5Y cells, fetal human brain tissue

IHC: human gliomas tissue, mouse brain tissue, rat brain tissue

IF-P: mouse brain tissue,

IF-Fro: mouse brain tissue,

IF/ICC: SH-SY5Y cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

DCX (Doublecortin) is a microtubule-associated protein that is essential for normal brain development. DCX is expressed in migrating neurons throughout the central and peripheral nervous system during embryonic and postnatal development. Anti-DCX antibodies are widely used for detection of neurogenesis. It's also a common neuron marker since its expression is specific to neurons.

## Notable Publications

Author	Pubmed ID	Journal	Application
Li Cheng	36212696	Front Cell Neurosci	IF
Jia Wang	36499306	Int J Mol Sci	WB, IF
Alison A Chomiak	35601919	iScience	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

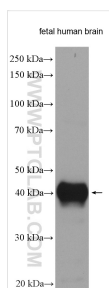
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

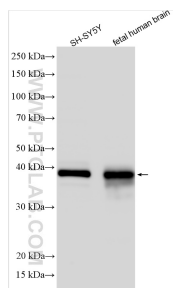
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

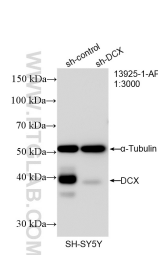
## Selected Validation Data



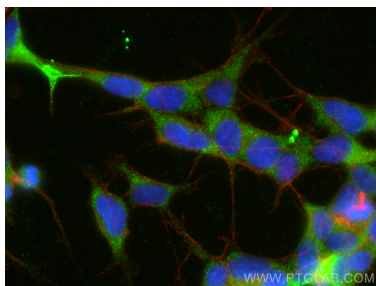
Fetal human brain lysates were subjected to SDS PAGE followed by western blot with 13925-1-AP (DCX antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



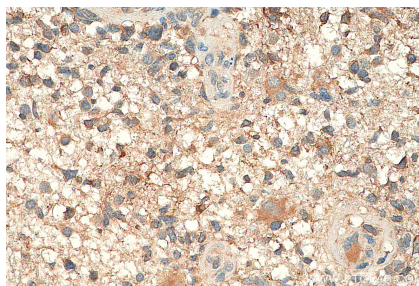
Various lysates were subjected to SDS PAGE followed by western blot with 13925-1-AP (DCX antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



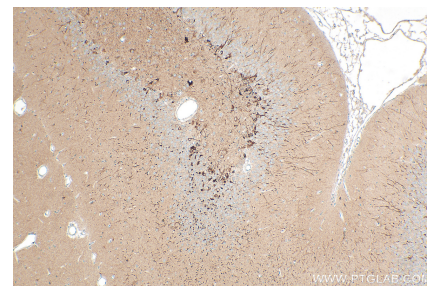
WB result of DCX antibody (13925-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DCX transfected SH-SY5Y cells.



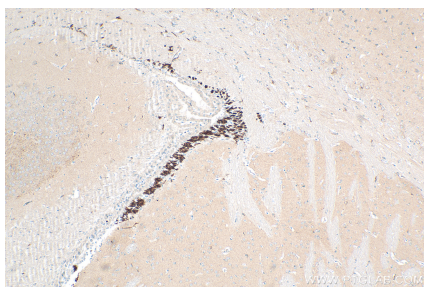
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using DCX antibody (13925-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



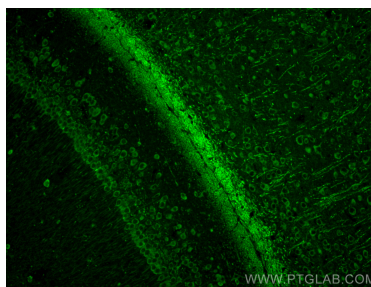
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 13925-1-AP (DCX antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



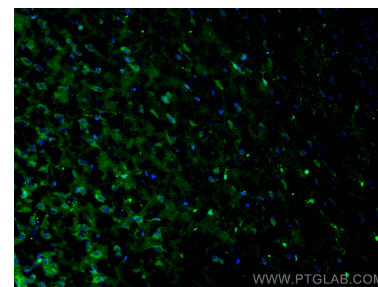
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13925-1-AP (DCX antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13925-1-AP (DCX antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using DCX antibody (13925-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using DCX antibody (13925-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).