

For Research Use Only

# DCX Polyclonal antibody

Catalog Number: 13925-1-AP

41 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

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

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,

## 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:

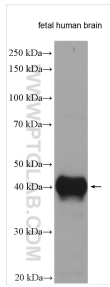
T: 4006900926

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

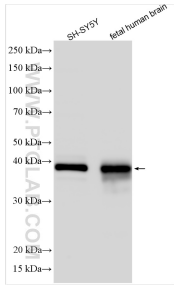
W: [ptgcn.com](http://ptgcn.com)

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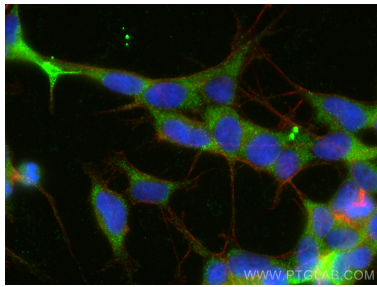
Selected Validation Data



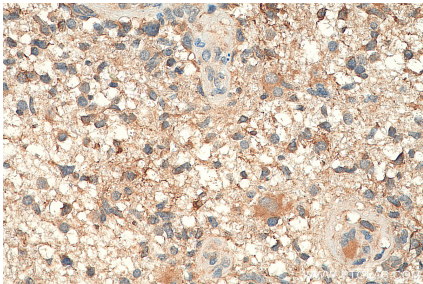
Fetal human brain lysates were subjected to SDS PAGE followed by western blot with 13925-1-AP (DCX antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



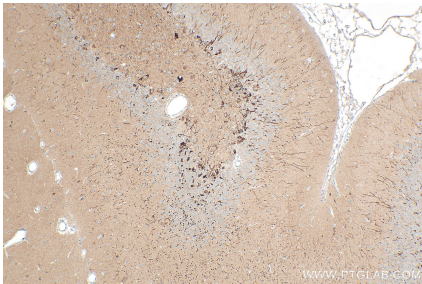
Various lysates were subjected to SDS PAGE followed by western blot with 13925-1-AP (DCX antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



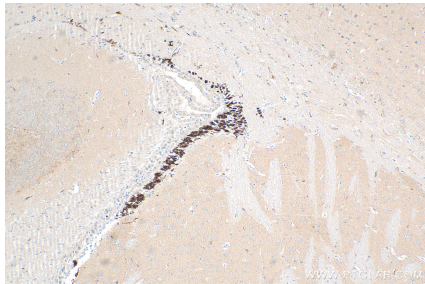
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using DCX antibody (13925-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



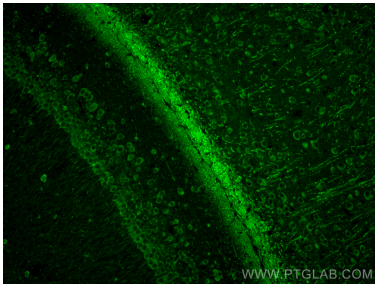
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 13925-1-AP (DCX antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



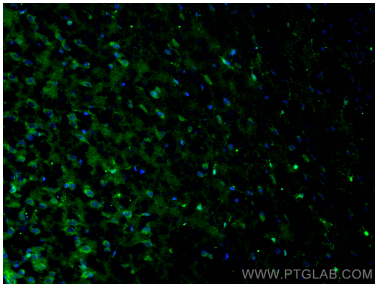
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13925-1-AP (DCX antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).