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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB10781 - Goat Anti-Doublecortin / DCX (aa232-242) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** DCX, doublecortin, RP5-914P14.1, DBCN, DC, FLJ51296, LISX, SCLH, XLIS, OTTHUMP00000216316, doublecortex, doublin, lis-X, lissencephalin-X, neuronal migration protein doublecortin

**Official Symbol:** DCX

**Accession Number(s):** NP\_000546.2; NP\_835365.1; NP\_835364.1; NP\_001182482.1

**Human GeneID(s):** [1641](#)

**Non-Human GeneID(s):** 13193 (mouse), 84394 (rat)

**Important Comments:** 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, from the internal region of the protein sequence according to NP\_000546.2; NP\_835365.1; NP\_835364.1; NP\_001182482.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:128000.

**IHC:** Paraffin embedded Human Brain (Cortex) and Testis. Recommended concentration: 5-6µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of HepG2 and KNRK cells. Recommended concentration: 10µg/ml.

### Species Reactivity

**Tested:** Human, Rat

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Pig, Cow

### Specific Reference

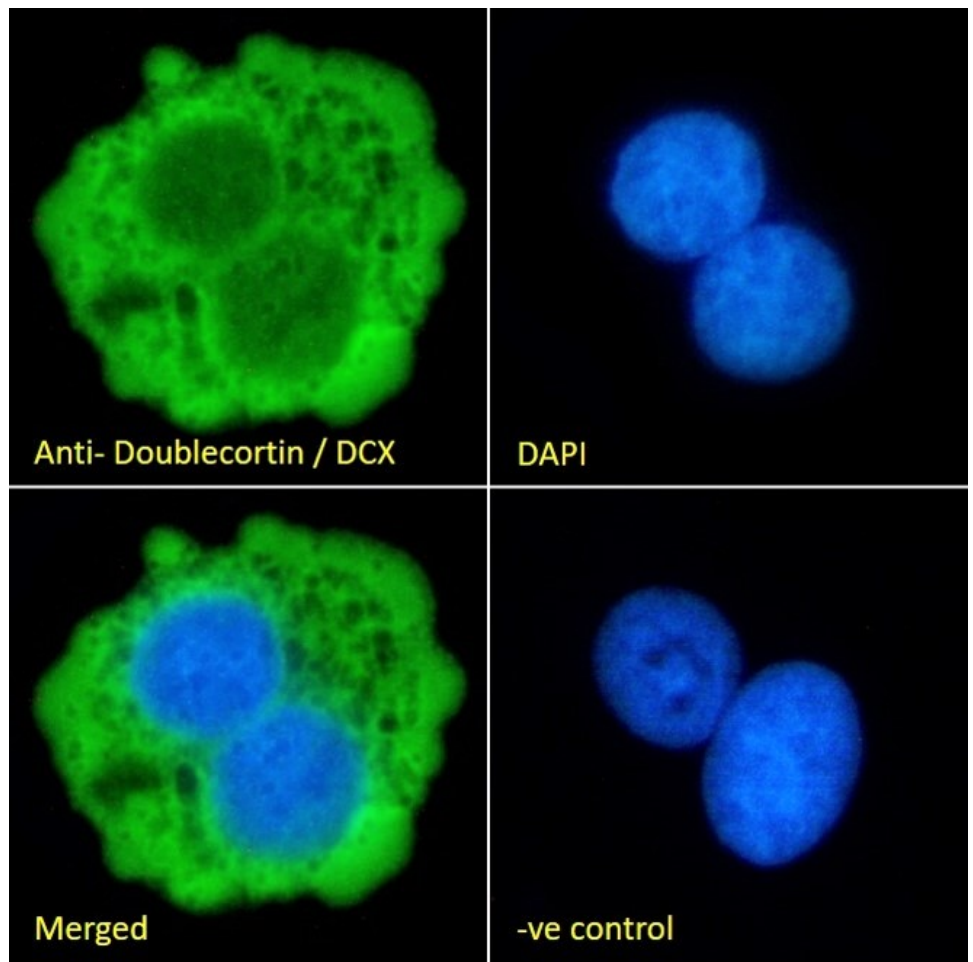
**This antibody (previous batch) has been successfully used in IHC on Rat:**

Heysieattalab, S., Sadeghi

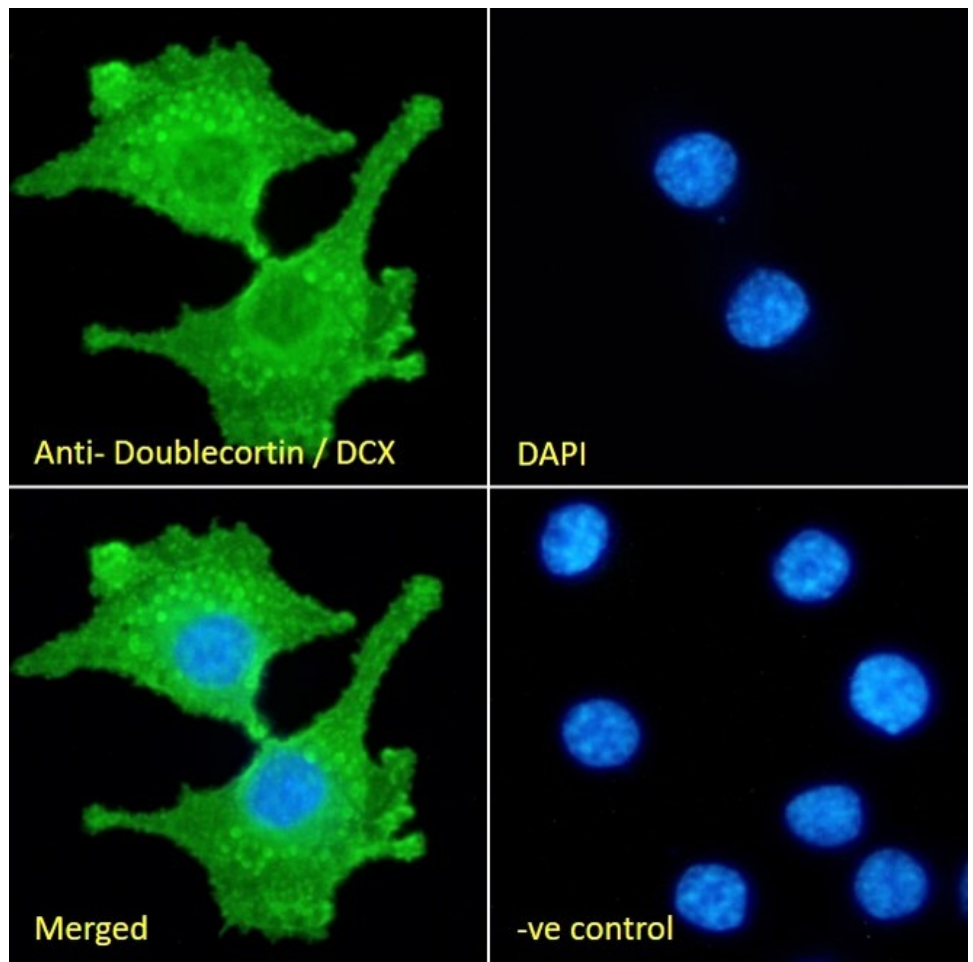
Dynamic structural neuroplasticity during and after epileptogenesis in a pilocarpine rat model of epilepsy

Acta Epileptologica 3, 3 (2021). <https://doi.org/10.1186/s42494-020-00037-7>

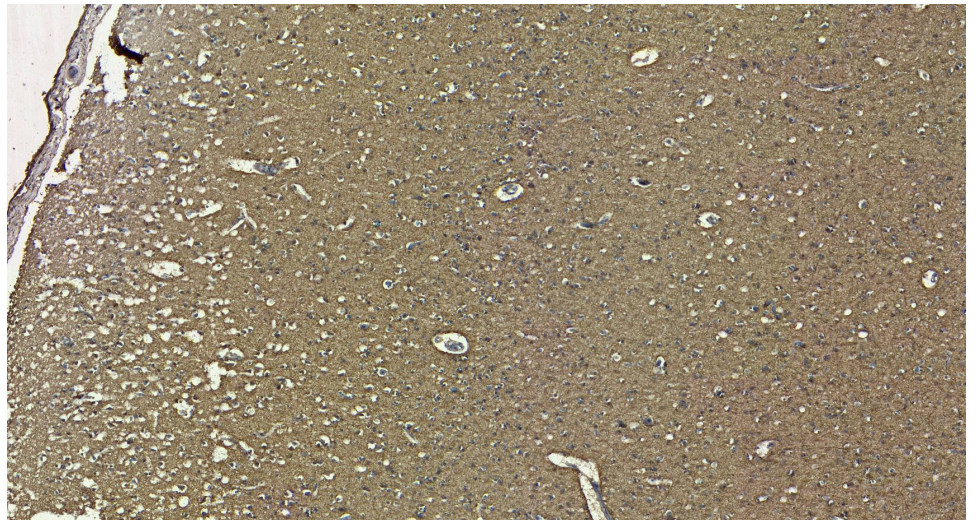
PMID: 0



EB10781 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

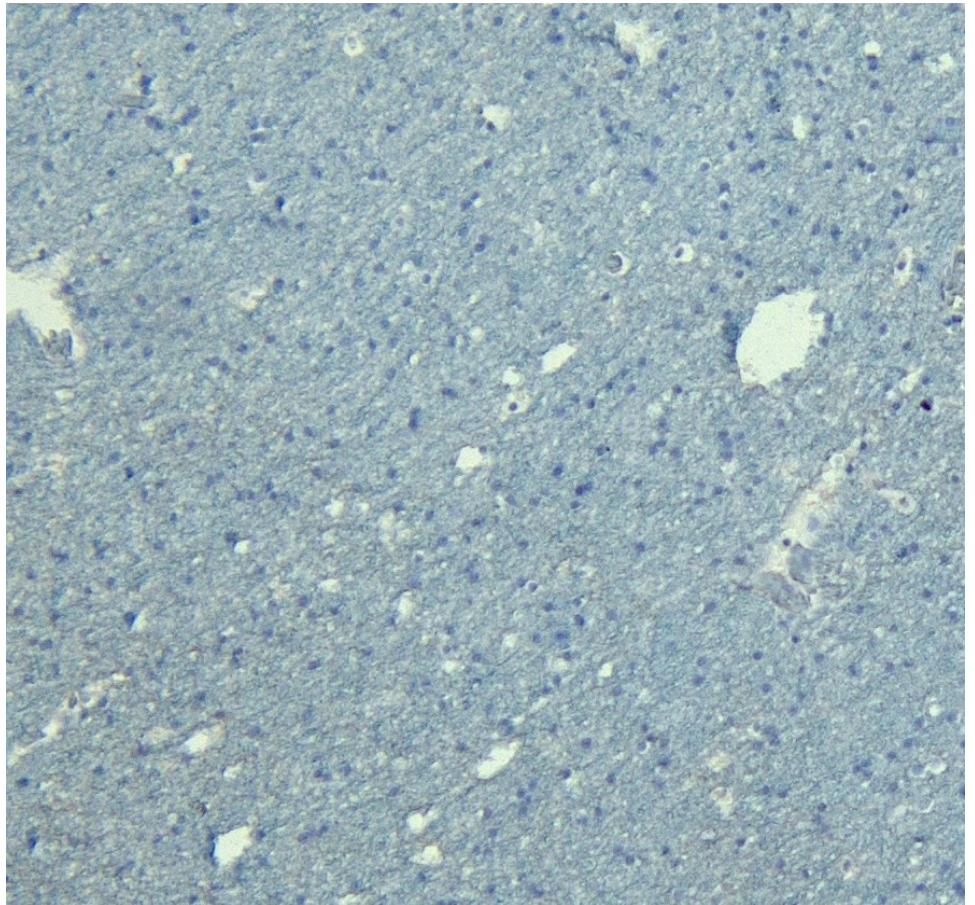


EB10781 Immunofluorescence analysis of paraformaldehyde fixed KNRK cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

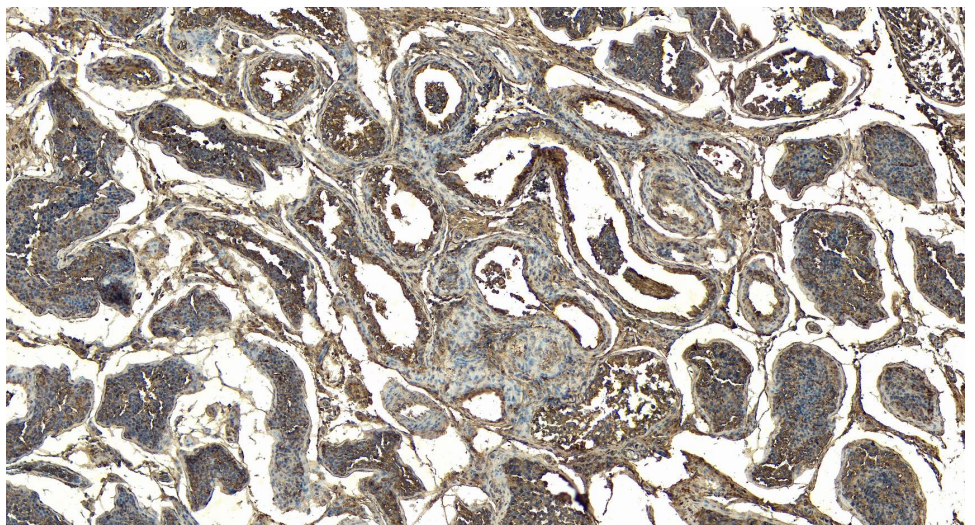


EB10781 (5µg/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.

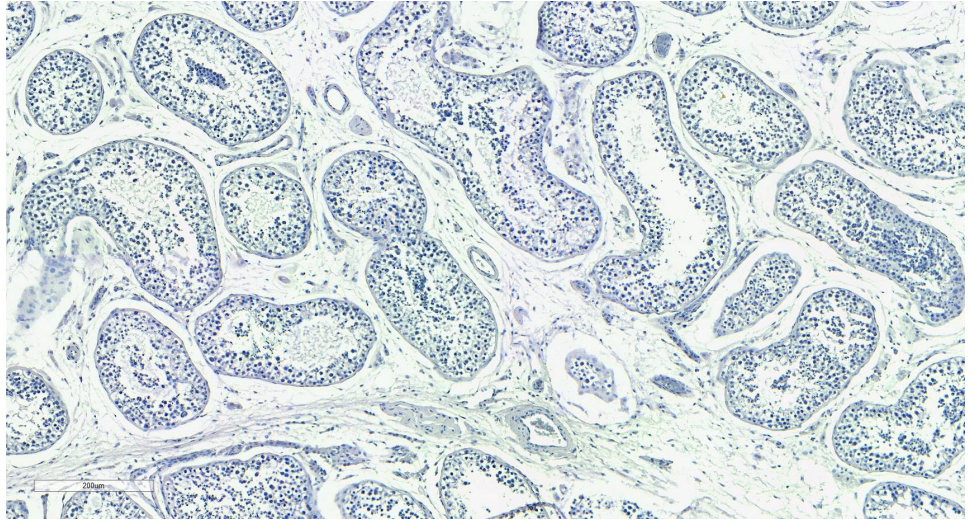




EB10781 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.



EB10781 (6 $\mu$ g/ml) staining of paraffin embedded Human Testis. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB10781 Negative Control showing staining of paraffin embedded Human Testis with no primary antibody.