

#### **International Office**

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# EB07258 - Goat Anti-Doublecortex / DCX Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

Principal Names: DCX, doublecortex, lissencephaly, X-linked (doublecortin),

RP5-914P14.1, DBCN, DC, LISX, SCLH, XLIS, OTTHUMP00000062892, doublecortin,

doublin, lissencephalin-X
Official Symbol: DCX

Accession Number(s): NP\_000546.2; NP\_835365.1; NP\_835364.1; NP\_835366.1

Human GeneID(s): 1641

Important Comments: This antibody is expected to recognise isoform a (NP\_000546.2),

isoform b (NP\_835365.1), and isoform c (NP\_835364.1 and NP\_835366.1).

## Immunogen

Peptide with sequence C-KASPTPQKTSAKSPG, from the internal region of the protein sequence according to NP\_000546.2; NP\_835365.1; NP\_835364.1; NP\_835366.1.

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.

**Western blot:** Approx 45kDa band observed in Mouse fetal Brain lysates (calculated MW of 40.6kDa according to Mouse NP\_001103692.1). Recommended concentration: 0.003-0.01µg/ml. Primary incubation 1 hour at room temperature.

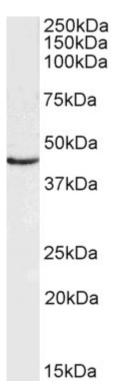
IHC: Paraffin embedded Human Brain (Cortex). Recommended concentration: 7µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of NIH3T3 cells. Recommended concentration: 5µg/ml.

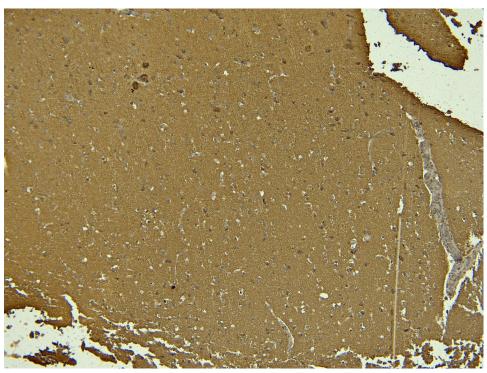
#### **Species Reactivity**

Tested: Human, Mouse

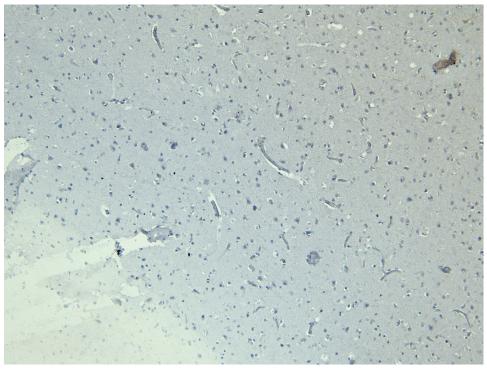
Expected from sequence similarity: Human; Mouse, Rat, Dog, Cat



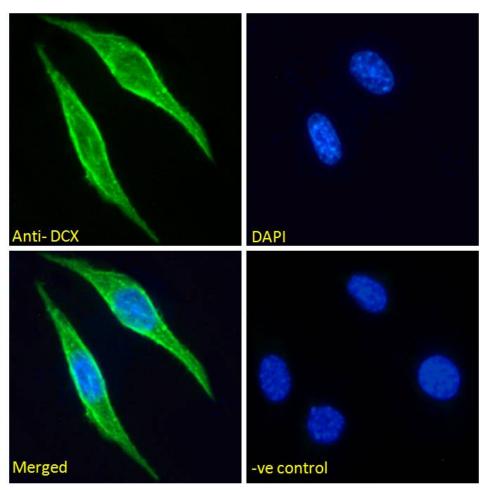
EB07258 ( $0.003\mu g/ml$ ) staining of Mouse fetal Brain lysate ( $35\mu g$  protein in RIPA buffer). Detected by chemiluminescence.



EB07258 (7µg/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB07258 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.



EB07258 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).