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Research Use Only. Not for diagnostic or therapeutic use.

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:

 $0.003\text{-}0.01\mu\text{g/ml}.$ Primary incubation 1 hour at room temperature.

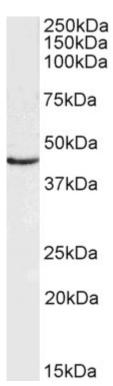
 $\textbf{IHC:} \ Paraffin \ embedded \ Human \ Brain \ (Cortex). \ Recommended \ concentration: \ 7\mu g/ml.$

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

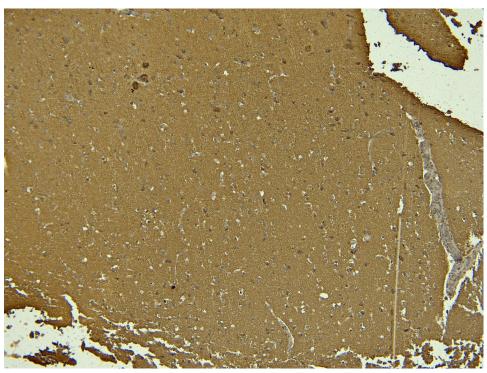
Species Reactivity

Tested: Human, Mouse

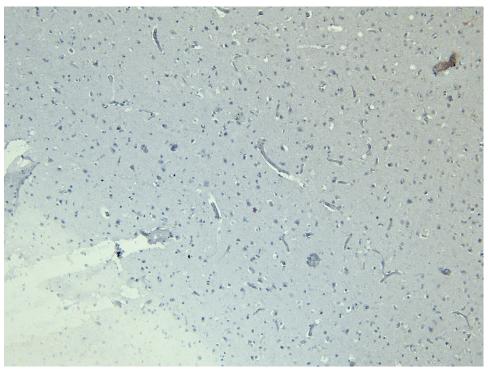
Expected from sequence similarity: Human; Mouse, Rat, Dog, Cat



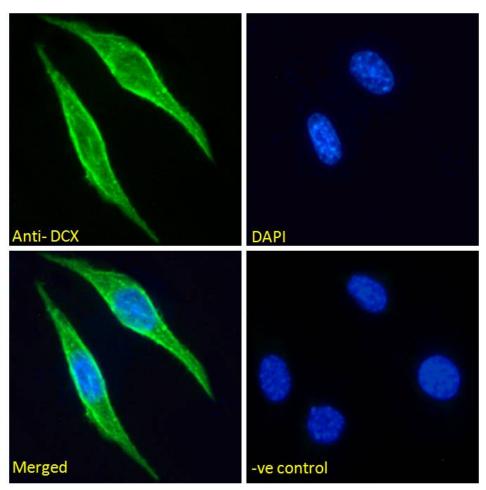
EB07258 ($0.003\mu g/ml$) staining of Mouse fetal Brain lysate ($35\mu g$ protein in RIPA buffer). Detected by chemiluminescence.



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).