

Summary

Production Name	DCX Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Mouse,Rat,Rabbit,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	DCX
Alternative Names	DC; DBCN; LISX; SCLH; XLIS
Gene ID	1641.0
SwissProt ID	O43602.Purified recombinant fragment of human DCX (AA: 362-411) expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	49.3kDa

Background

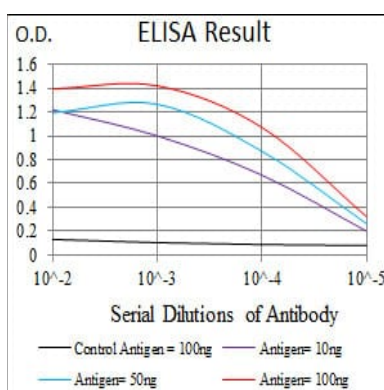
Product Name: DCX Mouse Monoclonal Antibody
Catalog #: AMM81147



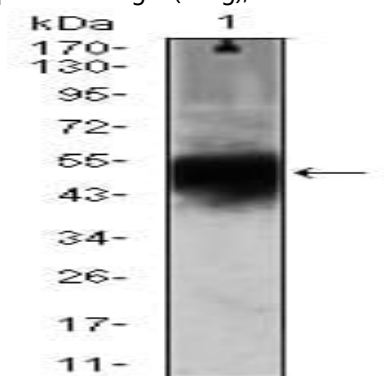
This gene encodes a member of the doublecortin family. The protein encoded by this gene is a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase, and this interaction is important to proper microtubule function in the developing cortex. Mutations in this gene cause abnormal migration of neurons during development and disrupt the layering of the cortex, leading to epilepsy, mental retardation, subcortical band heterotopia ("double cortex" syndrome) in females and lissencephaly ("smooth brain" syndrome) in males. Multiple transcript variants encoding different isoforms have been found for this gene.

Research Area

Image Data

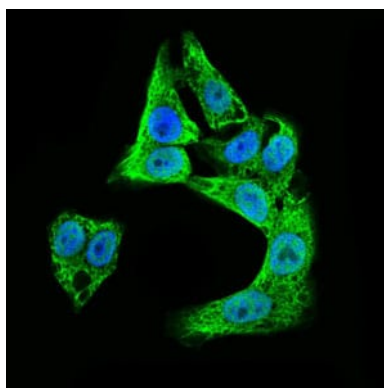


Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

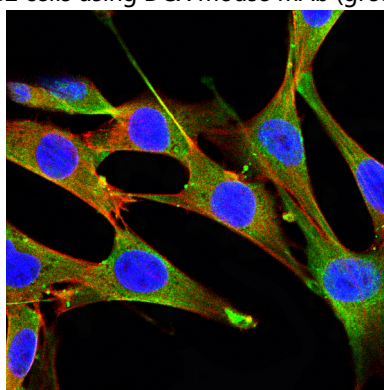


Western blot analysis using DCX mouse mAb against Mouse heart (1) lysate.

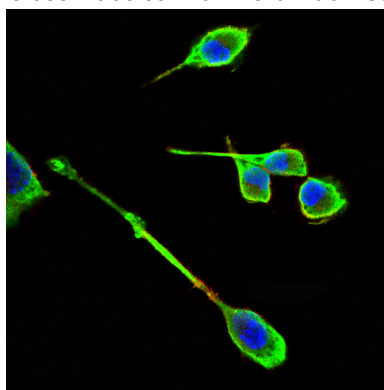
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Immunofluorescence analysis of HepG2 cells using DCX mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

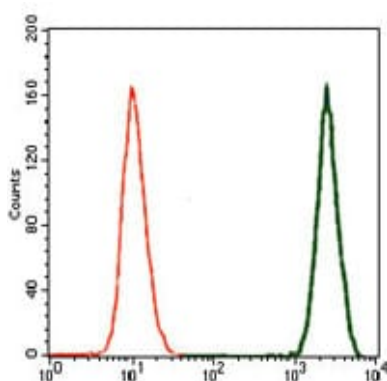


Immunofluorescence analysis of NIH/3T3 cells using DCX mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

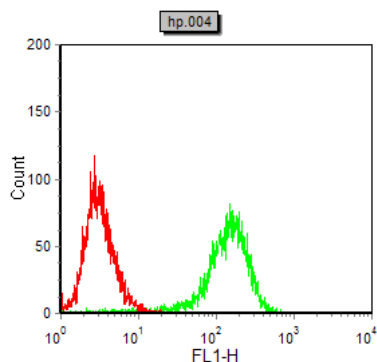


Immunofluorescence analysis of RSC-96 cells using DCX mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

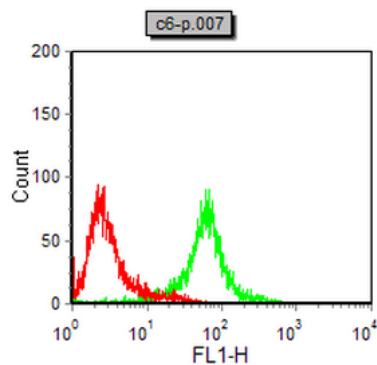
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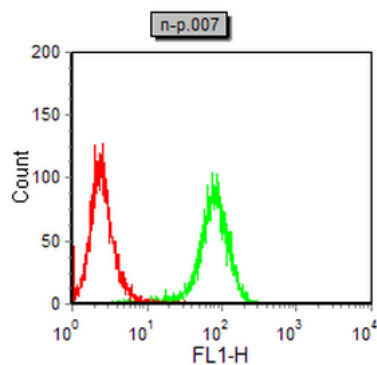
Flow cytometric analysis of SK-N-SH cells using DCX mouse mAb (green) and negative control (red).



Flow cytometric analysis of Hela cells using DCX mouse mAb (green) and negative control (red).



Flow cytometric analysis of C6 cells using DCX mouse mAb (green) and negative control (red).



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Flow cytometric analysis of NIH/3T3 cells using DCX mouse mAb (green) and negative control (red).

Note

For research use only.