Product Data Sheet
DCX Mouse Monoclonal Antibody

Product name:	DCX Mouse Monoclonal Antibody
Cat number:	MABN81147
Conjugate:	Unconjugated
Size:	100µL
Concentration:	1mg/ml
Host:	Mouse
Isotype:	Mouse IgG1
Reactivity:	Human,Mouse,Rat,Rabbit,Monkey
Applications:	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight:	3kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	Purified antibody in PBS with 0.05% sodium azide
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Synonyms:	DC; DBCN; LISX; SCLH; XLIS
Source:	Mouse

Background:

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.

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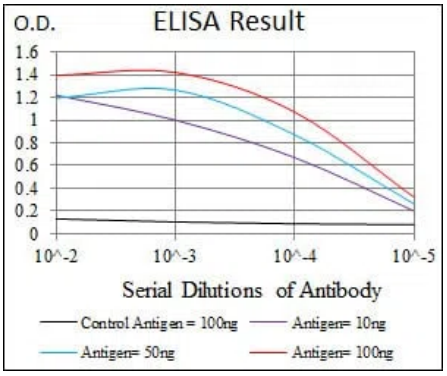
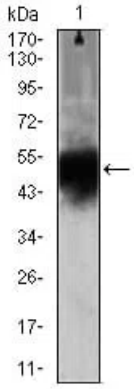
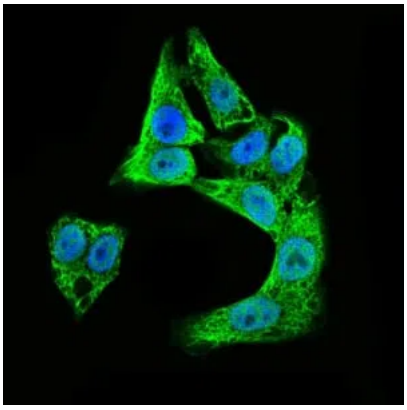


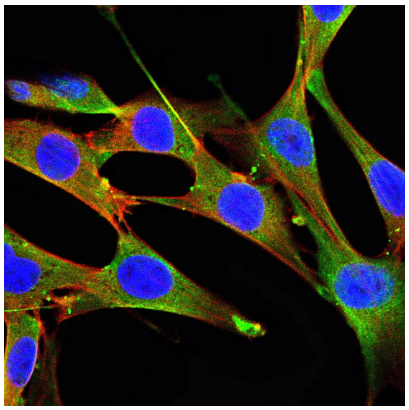
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



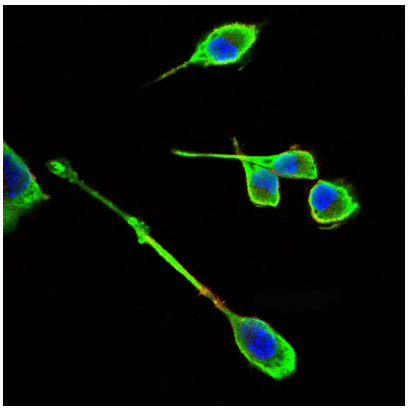
Western blot analysis using DCX mouse mAb against Mouse heart (1) lysate.



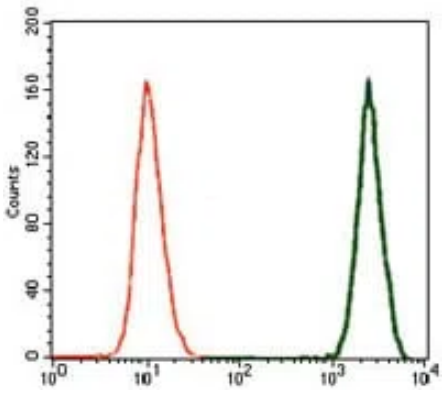
Immunofluorescence analysis of HepG2 cells using DCX mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



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.



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

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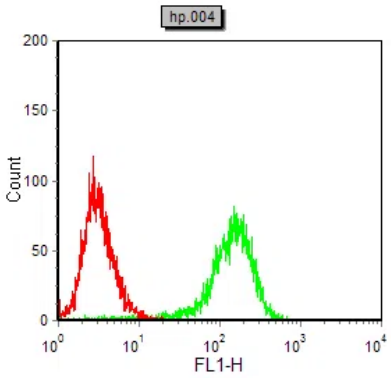
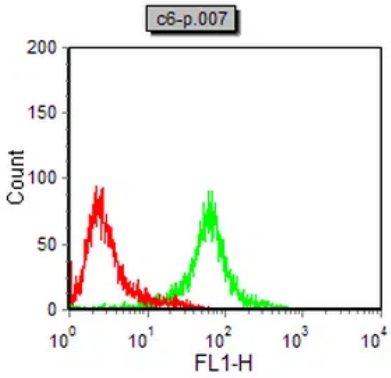
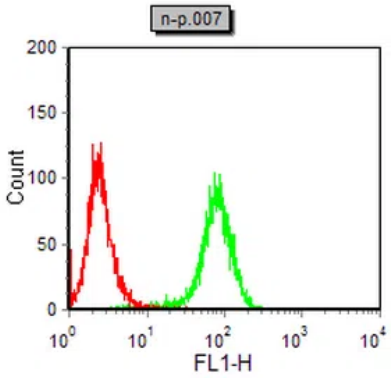
Web-site: https://immunologicalsciences.com - E-mail: info@immunologicalsciences.com



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).



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