

34-1028: Monoclonal Antibody to DCX Doublecortin (Clone: 3E1)

Clonality :	Monoclonal
Clone Name :	3E1
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse
Gene :	DCX
Gene ID :	1641
Uniprot ID :	O43602
Format :	Purified
Alternative Name :	Doublin,Lis-X,Lissencephalin-X
Isotype :	Mouse, IgG2a
Immunogen Information :	Recombinant full length human Lis-A isoform of DCX purified from E. coli.

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody or concentrated tissue culture supernatant.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1,000. IF/ICC and IHC: 1:1,000.

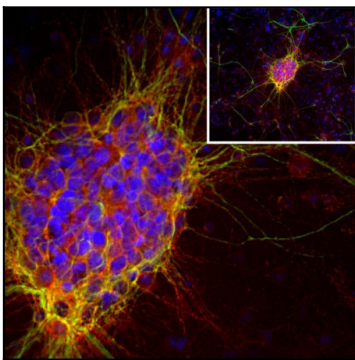


Figure-1: Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with mouse mAb to doublecortin, (34-1028), dilution 1:1,000 in red, and costained with chicken pAb to microtubule associated protein 2 (MAP2),(34-1064), dilution 1:10,000 in green. The blue is DAPI staining of nuclear DNA. The doublecortin antibody reveals strong cytoplasmic staining in a population of small developing neurons and their processes, while the MAP2 antibody stains dendrites and perikarya of mature neurons. Doublecortin antibody is an excellent marker of early developing neuronal cells.

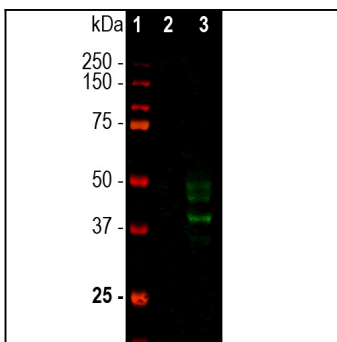


Figure-2: Western blot analysis of rat whole brain lysates using mouse mAb to doublecortin, (34-1028), dilution 1:1,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic E20 rat brain. Strong bands at 40kDa and 45kDa correspond to the doublecortin protein, detected only in the developing brain.