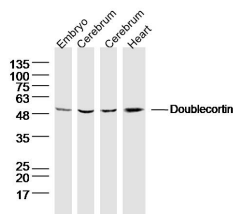

Doublecortin Rabbit pAb

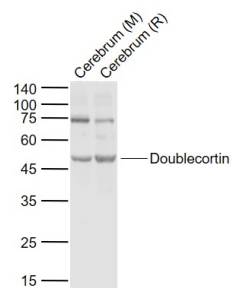
Catalog Number: bs-1269R
Target Protein: Doublecortin
Concentration: 1mg/ml
Form: Liquid
Host: Rabbit
Clonality: Polyclonal
Isotype: IgG
Applications: WB (1:500-2000), ICC/IF (1:100)
Reactivity: Human, Mouse, Rat (predicted:Cow, Chicken, Dog, Horse)
Predicted MW: 49 kDa
Entrez Gene: 1641
Swiss Prot: O43602
Source: KLH conjugated synthetic peptide derived from human Doublecortin: 31-150/362.
Purification: affinity purified by Protein A
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: Neuronal Marker

Doublecortin (DCX) is a microtubule-associated protein expressed almost exclusively in immature neurons. Neuronal precursors begin to express DCX shortly after exiting the cell cycle, and continue to express DCX for 2-3 weeks as the cells mature into neurons. Downregulation of DCX begins after 2 weeks, and occurs at the same time that these cells begin to express, a marker for mature neurons. Due to the nearly exclusive expression of DCX in developing neurons, this protein has been used increasingly as a marker for neurogenesis. Indeed, the levels of DCX expression increase in response to exercise, which occurs in parallel with increased BrdU labelling, currently a "gold standard" in measuring neurogenesis.

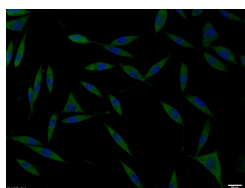
VALIDATION IMAGES



Sample: Embryo (mouse) Lysate at 40 ug Cerebrum (mouse) Lysate at 40 ug Cerebrum (Rat) Lysate at 40 ug Heart (mouse) Lysate at 40 ug Primary: Anti-Doublecortin (bs-1269R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49kD Observed band size: 49 kD



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Doublecortin (bs-1269R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 47 kD



SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Doublecortin) polyclonal Antibody, Unconjugated (bs-1269R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.568] Salois and Smith Housing Complexity Alters GFAP-Immunoreactive Astrocyte Morphology in the Rat Dentate Gyrus. (2016) Neural.Plas. 2016:3928726 IF ; Rat . 26989515

[IF=1.98] Xu HY et al. Protective Effect of Mesenchymal Stromal Cell-Derived Exosomes on Traumatic Brain Injury via miR-216a-5p. Med Sci Monit. 2020; 26: e920855-1-e920855-12. IF ; rat . 32150531

[IF=1.329] Gao N et al. Volatile Oil from Acorus gramineus Ameliorates the Injury Neurons in the Hippocampus of Amyloid Beta 1-42 Injected Mice. Anat Rec (Hoboken). 2019 Aug 23. WB,IHC ; Mouse . 31443117