

bs-1269R**[Primary Antibody]**

Doublecortin Rabbit pAb

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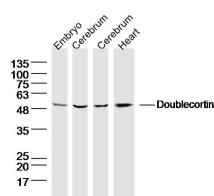
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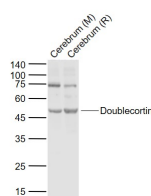
— DATASHEET —

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| Host: Rabbit Clonality: Polyclonal GeneID: 1641 Target: Doublecortin Immunogen: KLH conjugated synthetic peptide derived from human Doublecortin: 31-150/362. Purification: affinity purified by Protein A Concentration: 1mg/ml 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 <p>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.</p> | Isotype: IgG SWISS: O43602 Applications: WB (1:500-2000) ICC/IF (1:100) Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken, Dog, Horse) Predicted MW.: 49 kDa Subcellular Location: Cytoplasm |
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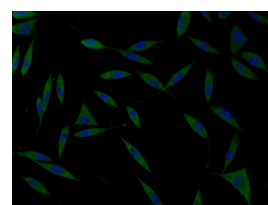
— VALIDATION IMAGES —



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.

— SELECTED CITATIONS —

- **[IF=4.7]** Ying Xie. et al. Quercetin Improves Hippocampal Neurogenesis in Depression by Regulating the Level of Let-7e-5p in Microglia Exosomes.. Drug Design Development and Therapy. 2025 Mar 24;19:2189-2203. IF ;Mouse. 40160967
- **[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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[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