bs-20797R

- DATASHEET -

[Primary Antibody]

DCX/Doublecortin Rabbit pAb



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Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse)

Predicted MW.: 49 kDa

Subcellular Location: Cytoplasm

GeneID: 1641

Host: Rabbit

Clonality: Polyclonal

SWISS: 043602

Isotype: IgG

Target: DCX/Doublecortin

Immunogen: KLH conjugated synthetic peptide derived from human DCX/Doublecortin: 201-300/441.

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

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: HepG2(human) Cell Lysate at 40 ug Primary: Anti-DCX'Doublecortinn (bs-20797R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 49 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DCX) Polyclonal Antibody, Unconjugated (bs-20797R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DCX) Polyclonal Antibody, Unconjugated (bs-20797R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining,

- SELECTED CITATIONS -

• [IF=5.195] Lu Hong. et al. Investigation of Naoluoxintong on the neural stem cells by facilitating proliferation and differentiation in vitro and on protecting neurons by up-regulating the expression of nestin in MCAO rats. J ETHNOPHARMACOL. 2022 Sep;:115684 IF,WB ;Rat. 36058480

- [IF=2.626] Wang, Zhe. et al. Baicalin Ameliorates Corticosterone-Induced Depression by Promoting Neurodevelopment of Hippocampal via mTOR/GSK3 β Pathway. CHIN J INTEGR MED. 2023 Jan;:1-8 IF,WB ;MOUSE. 36607586
- [IF=2.9] Xinyuan Liu. et al. The changes of neurogenesis in the hippocampal dentate gyrus of SAMP8 mice and the effects of acupuncture and moxibustion. BRAIN RES. 2024 May;1831:148814 IF ;Mouse. 38395250
- [IF=2.233] Zhe Wang. et al. Baicalin coadministration with lithium chloride enhanced neurogenesis via GSK3β pathway in corticosterone induced PC-12 cells. 2022 Mar 15 WB ;Rat. 35296580