

bs-20797R**[Primary Antibody]****BioSS**
ANTIBODIES

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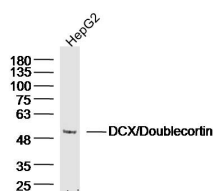
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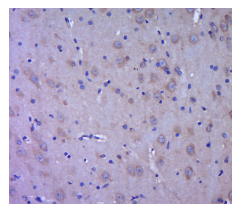
400-901-9800

DCX/Doublecortin Rabbit pAb**— DATASHEET —**

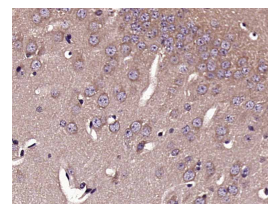
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 1641	SWISS: O43602	IHC-F (1:100-500)
Target: DCX/Doublecortin		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human DCX/Doublecortin: 201-300/441.		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse)
Purification: affinity purified by Protein A		Predicted MW.: 49 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm
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/Doublecortin (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) instructions and 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

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

- **[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 GSK3 β pathway in corticosterone induced PC-12 cells. 2022 Mar 15 WB ;Rat. 35296580