bs-20798R **[Primary Antibody]**

DCX/Doublecortin Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1641 **SWISS:** O43602

Target: DCX/Doublecortin

Immunogen: KLH conjugated synthetic peptide derived from human DCX: 311-400/441.

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.

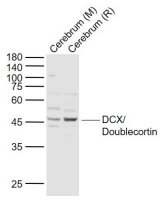
Applications: **WB** (1:500-2000)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

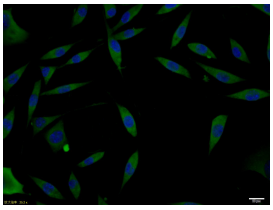
Predicted MW.: 49 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-DCX/Doublecortin (bs-20798R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 45 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 (DCX/Doublecortin) polyclonal Antibody, Unconjugated (bs-20798R) 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=6.1]** Hao Wu. et al. Nattokinase Promotes Post-stroke Neurogenesis and Cognition Recovery via Increasing Circulating Irisin. J AGR FOOD CHEM. 2023;XXXX(XXX):XXX-XXX IF ;Rat. 37466380