bs-11744R **[Primary Antibody]**

Engrailed 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2019 **SWISS:** Q05925

Target: Engrailed 1

Immunogen: KLH conjugated synthetic peptide derived from human EN1/Engrailed 1: 351-392/392.

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: The engrailed-1 gene, EN1, a murine homolog of the Drosophila homeobox gene engrailed (EN), is required for midbrain and cerebellum development and dorsal/ventral patterning of the limbs as well as apical ectodermal ridge formation. In Drosophila, the EN gene plays an important role during development in segmentation, where it is required for the formation of posterior compartments. Human EN-1 and EN-2 are homeodomain-containing proteins and have been implicated in the control of pattern formation during development of the central nervous system. Different mutations in the mouse homo-logs, EN-1 and EN-2, produce different developmental defects that frequently are lethal. EN-1 is highly expressed by essentially all dopaminergic neurons in the substantia nigra and ventral tegmentum. EN-1 and EN-2 regulate expres-sion of a-synuclein, a gene that is genetically linked to Parkinson’ s disease.

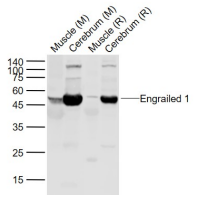
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)

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

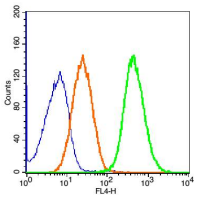
Predicted MW.: 40 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: Muscle (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Mouse) Lysate at 40 ug Lane 3: Muscle (Rat) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Engrailed 1 (bs-11744R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 50 kD



Blank control(blue): Raji Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice). Primary Antibody: Rabbit Anti-Engrailed 1/AF647 Conjugated antibody (bs-11744R-AF647), Dilution: 0.2μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.

SELECTED CITATIONS

- **[IF=14.7]** Rybiczka-Tešulov Mateja. et al. Circular RNAs regulate neuron size and migration of midbrain dopamine neurons during development. NAT COMMUN. 2024 Aug;15(1):1-23 IF ;Mouse. 39117691
- **[IF=6.525]** Mengfan Wu. et al. Continuous NPWT Regulates Fibrosis in Murine Diabetic Wound Healing. PHARMACEUTICS. 2022 Oct;14(10):2125 IF ;Mouse. 36297560

- **[IF=6.2]** HondaAzusa. et al. CD206+ macrophages facilitate wound healing through interactions with Gpnmbhi fibroblasts. EMBO REP. 2025 六月 10 IHC ;Human. 40495034
- **[IF=4.1]** Guo-Kun Zhang. et al. Injectable hydrogel made from antler mesenchyme matrix for regenerative wound healing via creating a fetal-like niche. WORLD J STEM CELLS. 2023 Jul 26; 15(7): 768–780 WB ;Rat. 37545751