bs-1024R **[Primary Antibody]**

GDNF Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2668 **SWISS:** P39905

Target: GDNF

Immunogen: KLH conjugated synthetic peptide derived from human GDNF: 121-211/211.

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: Neurobiology. Neurotrophins. Neuroscience.
This gene encodes a highly conserved neurotrophic factor. The recombinant form of this protein was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease.

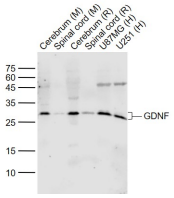
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:200-800)

Reactivity: Human, Mouse, Rat

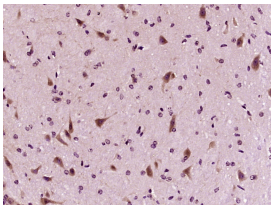
Predicted MW.: 15 kDa

Subcellular Location: Secreted

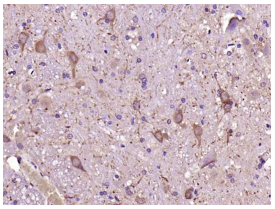
VALIDATION IMAGES



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Spinal cord (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Rat) Lysate at 40 ug Lane 4: Spinal cord (Rat) Lysate at 40 ug Lane 5: U87MG (Human) Cell Lysate at 30 ug Lane 6: U251 (Human) Cell Lysate at 30 ug Primary: Anti-GDNF (bs-1024R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25/20 kD Observed band size: 28 kD



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 (GDNF) Polyclonal Antibody, Unconjugated (bs-1024R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat spinal cord); 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 (GDNF) Polyclonal Antibody, Unconjugated (bs-1024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.984]** Zhang N et al. GLAST - CreERT2 mediated deletion of GDNF increases brain damage and exacerbates long - term stroke outcomes after focal ischemic stroke in Mousemodel. Glia. 2020 Nov;68(11):2395-2414. WB ;Mouse. 32497340
- **[IF=5.546]** Min Ai. et al. 1,25(OH)2D3 attenuates sleep disturbance in mouse models of Lewis lung cancer, in silico and

in vivo. 2021 Jun 01 WB ;Mouse. 34061988

- **[IF=4.5]** Zeng Jian. et al. Inhibition of GDNF-Driven Macrophage-to-Myofibroblast Transition Protects Against Colitis-Associated Intestinal Fibrosis. INFLAMMATION. 2024 Nov;:1-9 IHC ;Human,Mouse. 39500861
- **[IF=4.5]** Skoczynski Kathrin. et al. The extracellular matrix protein fibronectin promotes metanephric kidney development. PFLUG ARCH EUR J PHY. 2024 Apr;:1-12 IHC ;Mouse. 38563997
- **[IF=2.472]** Fei J et al. Electroacupuncture promotes peripheral nerve regeneration after facial nerve crush injury and upregulates the expression of glial cell-derived neurotrophic factor. Neural Regen Res. 2019 Apr;14(4):673-682. WB ;Rabbit. 30632508