

**bs-1097R****[ Primary Antibody ]****PAX3 Rabbit pAb****Bioss**  
**ANTIBODIES**

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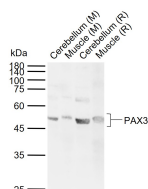
sales@bioss.com.cn

techsupport@bioss.com.cn

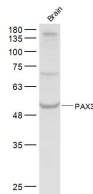
400-901-9800

**— DATASHEET —**

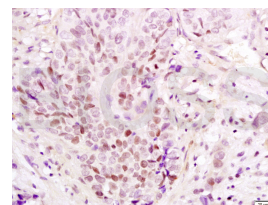
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Mouse, Rat  <b>Predicted MW.:</b> 53 kDa  <b>Subcellular Location:</b> Nucleus
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 5077	<b>SWISS:</b> P23760	
<b>Target:</b> PAX3		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human PAX3: 151-250/479.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> This protein is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These proteins play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini.		

**— VALIDATION IMAGES —**

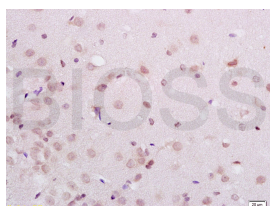
Sample: Lane 1: Mouse Cerebellum tissue lysates  
 Lane 2: Mouse Muscle tissue lysates Lane 3: Rat Cerebellum tissue lysates Lane 4: Rat Muscle tissue lysates  
 Primary: Anti-PAX3 (bs-1097R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 53 kDa  
 Observed band size: 53 kDa



Sample: Brain (Mouse) Lysate at 40 ug  
 Primary: Anti-PAX3 (bs-1097R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 53 kD  
 Observed band size: 53 kD



Tissue/cell: Human esophageal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-PAX3 Polyclonal Antibody, Unconjugated(bs-1097R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (

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

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## — SELECTED CITATIONS —

- **[IF=4.5]** Dong, Changsheng, et al. "Functional Role of Cyclin-Dependent Kinase 5 in the Regulation of Melanogenesis and Epidermal Structure." Scientific Reports (Nature Publisher Group) 7 (2017): 1. WB ;="Mouse". 29062096
- **[IF=4.925]** Yuanyuan Chen. et al. Single-Cell Characterization of the Frizzled 5 (Fz5) Mutant Mouse and Human Persistent Fetal Vasculature (PFV). INVEST OPHTH VIS SCI. 2023 Mar;64(3):8-8 IHC ;Human. 36867129
- **[IF=3.8]** Xu, Dan, et al. "High expression of hippocampal glutamic acid decarboxylase 67 mediates hypersensitivity of the hypothalamic-pituitary-adrenal axis in response to prenatal caffeine exposure in rats." Toxicology Letters (2017). IF ;="". 29111460
- **[IF=4.4]** Li Zhang. et al. Cycloleucine induces neural tube defects by reducing Pax3 expression and impairing the balance of proliferation and apoptosis in early neurulation. NEUROCHEM INT. 2024 Sep;;105861 IHC ;Mouse. 39307459
- **[IF=3.04]** Bonchak, Jonathan G., et al. "Targeting melanocyte and melanoma stem cells by 8-hydroxy-2-dipropylaminotetralin." Archives of Biochemistry and Biophysics (2014). IHC ;="Human". 25132642