bs-1097R **[Primary Antibody]**

PAX3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5077 **SWISS:** P23760

Target: PAX3

Immunogen: KLH conjugated synthetic peptide derived from human PAX3: 151-250/479.

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: 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.

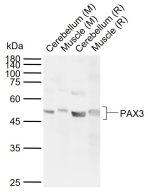
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

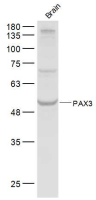
Predicted MW.: 53 kDa

Subcellular Location: Nucleus

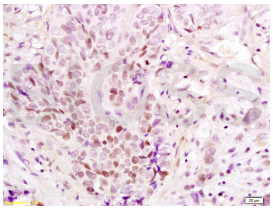
VALIDATION IMAGES



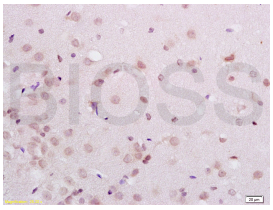
Sample: Lane 1: Mouse Cerebellum tissue lysates Lane 2: Mouse Muscle tissue lysates Lane 3: Rat Cerebellum tissue lysates Lane 4: Rat Muscle tissue lysates Primary: Anti-PAX3 (bs-1097R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kDa Observed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

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

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