

**bs-3816R****[ Primary Antibody ]****Oct-4B/OCT4B-190 Rabbit pAb****Bioss**  
**ANTIBODIES**

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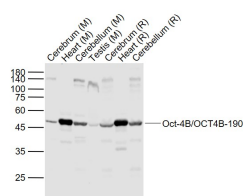
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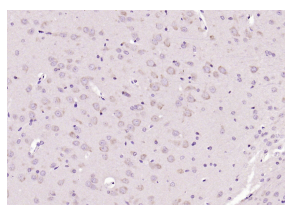
400-901-9800

**— DATASHEET —**

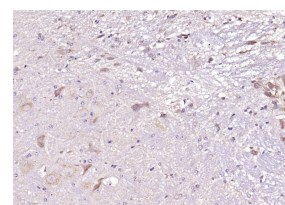
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 5460	<b>SWISS:</b> Q01860	<b>IHC-F</b> (1:100-500)
<b>Target:</b> Oct-4B/OCT4B-190		<b>IF</b> (1:100-500)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human OCT4: 201-300/360.		<b>Reactivity:</b> Mouse, Rat (predicted: Human, Pig, Cow, Dog)
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 21/39 kDa
<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>Subcellular Location:</b> Nucleus
<b>Background:</b> This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t(6;22)(p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. [provided by RefSeq].		

**— VALIDATION IMAGES —**

Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug  
Lane 2: Heart (Mouse) Lysate at 40 ug  
Lane 3: Cerebellum (Mouse) Lysate at 40 ug  
Lane 4: Testis (Mouse) Lysate at 40 ug  
Lane 5: Cerebrum (Rat) Lysate at 40 ug  
Lane 6: Heart (Rat) Lysate at 40 ug  
Lane 7: Cerebellum (Rat) Lysate at 40 ug  
Primary: Anti-Oct-4B/OCT4B-190 (bs-3816R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 45 kD  
Observed band size: 47 kD



Paraformaldehyde-fixed, paraffin embedded (rat 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 (Oct-4B OCT4B-190) Polyclonal Antibody, Unconjugated (bs-3816R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); 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 (Oct-4B OCT4B-190) Polyclonal Antibody, Unconjugated (bs-3816R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=3.899]** Xiuxiu Liu. et al. PHF20 inhibition promotes apoptosis and cisplatin chemosensitivity via the OCT4-p-STAT3-MCL1 signaling pathway in hypopharyngeal squamous cell carcinoma. Int J Oncol. 2021 Jul;59(1):1-14 WB ;Human. 33982773
- **[IF=3.166]** Liu et al. JNK is required for maintaining the tumor-initiating cell-like properties of acquired chemoresistant human cancer cells. (2015) Acta.Pharmacol.Si. 36:1099-106 WB ;Human. 26235742
- **[IF=2.15]** Liu, Yu-Hong, et al. "A signature for induced pluripotent stem cell?Associated genes in colorectal

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cancer."Medical Oncology 30.1 (2013): 1-11.e WB ;="Human". 23307247

- **[IF=2.02]** Jiejuan Lai. et al. Comparison of the biological and functional characteristics of mesenchymal stem cells from intrahepatic and identical bone marrow. Stem Cell Res. 2021 Aug;55:102477 IF ;Mouse. 34343826
- **[IF=1.58]** Liu, Lu, et al. "OCT4B1 Regulates the Cellular Stress Response of Human Dental Pulp Cells with Inflammation." BioMed Research International 2017 (2017). WB ;="Human". doi:10.1155/2017/2756891