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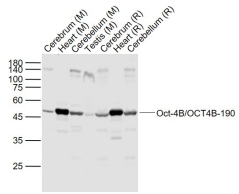
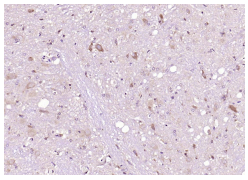
Oct-4B/OCT4B-190 Rabbit pAb

Catalog Number:	bs-3816R
Target Protein:	Oct-4B/OCT4B-190
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1μg /Test)
Reactivity:	Human, Mouse, Rat (predicted:Pig, Cow, Dog)
Predicted MW:	21/39 kDa
Entrez Gene:	5460
Swiss Prot:	Q01860
Source:	KLH conjugated synthetic peptide derived from human OCT4: 201-300/360.
Purification:	affinity purified by Protein A
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 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].

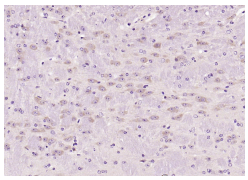
VALIDATION IMAGES



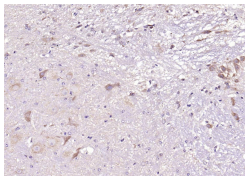
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Heart (Mouse) Lysate at 40 ug Lane 3: Cerebellum (Mouse) Lysate at 40 ug Lane 4: Testis (Mouse) Lysate at 40 ug Lane 5: Cerebrum (Rat) Lysate at 40 ug Lane 6: Heart (Rat) Lysate at 40 ug Lane 7: Cerebellum (Rat) Lysate at 40 ug Primary: Anti-Oct-4B/OCT4B-190 (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



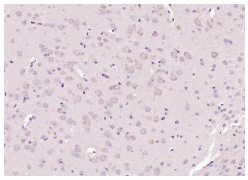
Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Oct-4B OCT4B-190) Polyclonal Antibody, Unconjugated (bs-3816R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



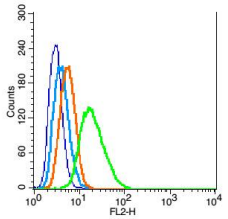
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Oct-4B OCT4B-190) Polyclonal Antibody, Unconjugated (bs-3816R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand 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) instructionsand DAB staining.



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) instructionsand DAB staining.



Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1µg in 100 µL1X PBS containing 0.5% BSA(green).

PRODUCT SPECIFIC PUBLICATIONS

[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?Cassociated genes in colorectal 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