

bs-8548R**[Primary Antibody]****OLIG1 Rabbit pAb****BioSS**
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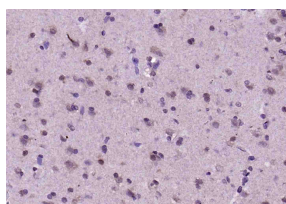
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 116448 Target: OLIG1 Immunogen: KLH conjugated synthetic peptide derived from human OLIG1: 121-220/271. 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: The oligodendrocyte lineage-specific basic helix-loop-helix (OLIG) family of transcription factors include OLIG1-OLIG3, which differ in tissue expression. OLIG1 and OLIG2 are specifically expressed in nervous tissue as gene regulators of oligodendrogenesis. OLIG2 is more widely expressed in embryonic brain than OLIG1, while OLIG3 is primarily expressed in non-neural tissues. OLIG1 and OLIG2 interact with the Nkx-2.2 homeodomain protein, which is responsible for directing ventral neuronal patterning in response to graded Sonic hedgehog signaling in the embryonic neural tube. These interactions between OLIG proteins and Nkx-2.2 appear to promote the formation of alternate cell types by inhibiting V3 interneuron development. OLIG1 and OLIG2 are abundantly expressed in oligodendroglioma and nearly absent in astrocytomas. Therefore, OLIG proteins are candidates for molecular markers of human glial brain tumors, which are the most common primary malignancies of the human brain.	Isotype: IgG SWISS: Q8TAK6 Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:50-200) Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Dog) Predicted MW.: 28 kDa Subcellular Location: Nucleus
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— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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; Incubation with (OLIG1) Polyclonal Antibody, Unconjugated (bs-8548R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=5.59]** Madhavi Joshi. et al. Extreme Glycemic Fluctuations Debilitate NRG1, ErbB Receptors and Olig1 Function: Association with Regeneration, Cognition and Mood Alterations During Diabetes. 2021 Jun 24 IF ;Rat. 34165684

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

- **[IF=1.872]** Cong Y et al. NT-3 Promotes Oligodendrocyte Proliferation and Nerve Function Recovery After Spinal Cord Injury by Inhibiting Autophagy Pathway. J Surg Res. 2019 Nov 24. pii: S0022-4804(19)30763-2. IHC ;Rat. 31776022