

Purified anti-SOX-10 Antibody

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| Catalog# / Size | 847201 / 25 µg 847202 / 100 µg |
| Clone | BSB-62 |
| Regulatory Status | RUO |
| Other Names | Transcription factor SOX-10 |
| Isotype | Mouse IgG2b, κ |
| Description | SOX-10 is a transcriptional activator that is involved in the regulation of embryonic development and in the determination of cell fate. |

Product Details

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| Verified Reactivity | Human, Mouse, Rat |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Synthetic peptide corresponding to the N-terminus of human SOX-10. |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Preparation | The antibody was purified by affinity chromatography. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. |
| Application | IHC-P - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes | This antibody may show weaker reactivity to human tissues. |
| Product Citations | 1. Dravis C <i>et al.</i> 2018. Cancer cell. 34(3):466-482 . PubMed |
| RRID | AB_2734617 (BioLegend Cat. No. 847201) AB_2629666 (BioLegend Cat. No. 847202) |

Antigen Details

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| Structure | SOX-10 is a 466 amino acid protein with a molecular mass of 50 kD. |
| Distribution | Tissue distribution: primarily expressed in the nuclei of glia in fetal and adult brain, and in the heart, salivary gland and skin. Cellular distribution: nucleus. |
| Function | SOX-10 likely functions synergistically with the POU domain protein TST-1/OCT6/SCIP to confer function of other transcription factors in developing and mature glia. The protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. |
| Interaction | DNA, PAX3, NMI. |
| Cell Type | Microglia |

Biology Area Cell Biology, Neuroscience, Neuroscience Cell Markers

Molecular Family Endosomal Markers

Antigen References
1. Bondurand N, Sham MH. 2013. *Dev. Biol.* 382(1):330. [PubMed](#)
2. Mollaaghababa R, Pavan WJ. 2003. *Oncogene.* 22(20):3024. [PubMed](#)

Gene ID [6663](#)

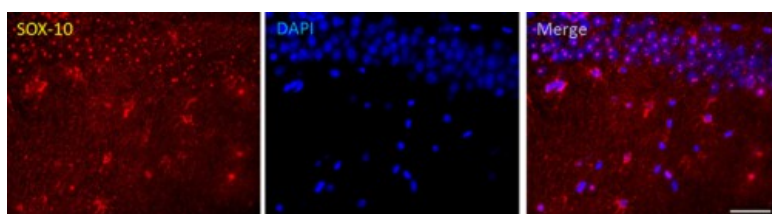
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

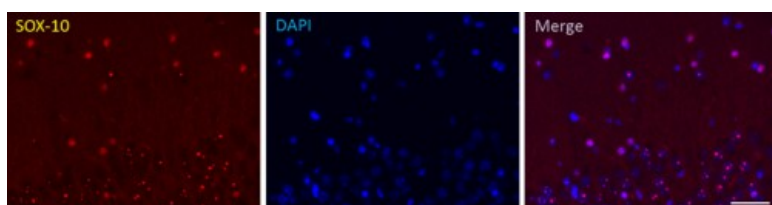
Other Formats

Purified anti-SOX-10

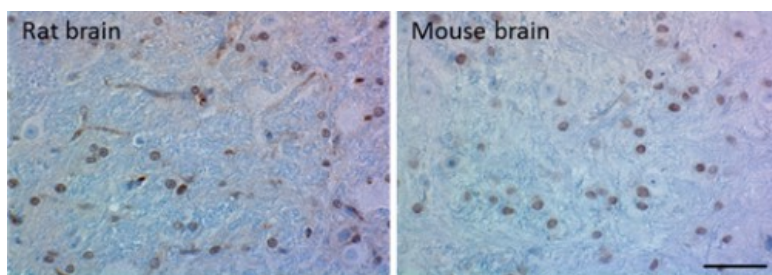
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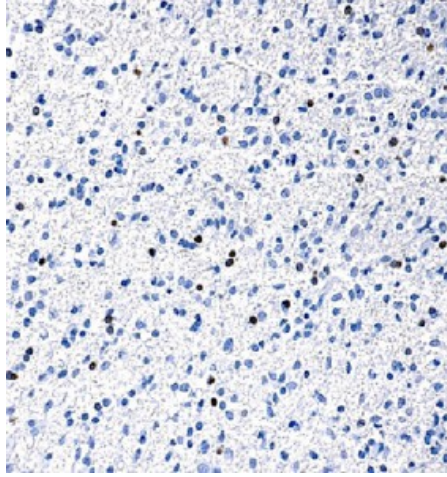
IHC staining of purified anti-SOX-10 antibody (clone BSB-62) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 µg/mL of the primary antibody overnight at 4°C, followed by incubation with Alexa Fluor® 594 goat anti-Mouse IgG (Cat. No. 405326) for one hour at room temperature. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm.



IHC staining of purified anti-SOX-10 antibody (clone BSB-62) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 µg/mL of the primary antibody overnight at 4°C, followed by incubation with Alexa Fluor® 594 goat anti-Mouse IgG (Cat. No. 405326) for one hour at room temperature. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm.



IHC staining of purified anti-SOX-10 antibody (clone BSB-62) on formalin-fixed paraffin-embedded rat and mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 µg/mL of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The images were captured with a 40X objective. Scale bar: 50 µm



IHC staining of anti-SOX-10 antibody (clone BSB-62) on formalin-fixed paraffin-embedded human glial tumor tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 µg/mL of the primary antibody for 30 minutes at room temperature. BioLegend's Ultra-Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The images were captured with a 40X objective.

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