

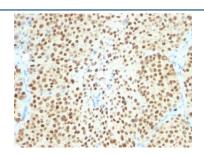
Recombinant SOX10 Antibody [clone SOX10/2311R] (V3690)

Catalog No.	Formulation	Size
V3690-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3690-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3690SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3690IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

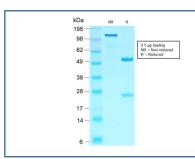
Recombinant RABBIT MONOCLONAL

Bulk quote request

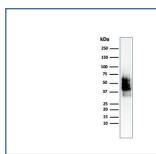
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	SOX10/2311R
Purity	Protein A affinity chromatography
UniProt	P56693
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1) Western Blot : 1-2ug/ml
Limitations	This recombinant SOX10 antibody is available for research use only.



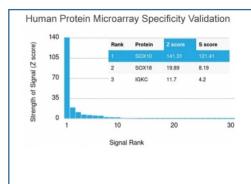
IHC testing of FFPE melanoma with recombinant SOX10 antibody (clone SOX10/2311R). Required HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.



SDS-PAGE analysis of purified, BSA-free recombinant SOX10 antibody (clone SOX10/2311R) as confirmation of integrity and purity.



Western blot testing of human COLO-38 cell lysate with recombinant SOX10 antibody (clone SOX10/2311R). Expected molecular weight: 50-58 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant SOX10 antibody. These results demonstrate the foremost specificity of the SOX10/2311R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant SOX10 antibody is designed to detect SRY related HMG box transcription factor 10, a regulator of neural crest derived cell lineages. SOX10 is essential for the development of melanocytes, Schwann cells, and oligodendrocytes. Its activity defines neural crest fate, drives transcriptional programs for differentiation, and maintains cell survival. Because of these roles, SOX10 is studied extensively in developmental biology, neurobiology, and tumor pathology.

SOX10 binds DNA through its HMG domain and regulates transcription of genes associated with pigmentation, glial differentiation, and myelin formation. Mutations in SOX10 are responsible for developmental syndromes such as Waardenburg and Hirschsprung, both of which affect pigment and enteric nervous system formation. Dysregulated expression of SOX10 has also been linked to melanoma and neural crest derived tumors.

The Recombinant SOX10 antibody clone SOX10/2311R provides consistent and precise detection. Recombinant manufacturing eliminates variability across batches, ensuring reproducible performance. Clone SOX10/2311R has been applied in studies of neural crest biology, tumor diagnostics, and oligodendrocyte maturation. Its nuclear staining pattern supports accurate localization in tissues and cells.

Research using clone SOX10/2311R has clarified how SOX10 expression distinguishes melanocytic tumors from other neoplasms and aids in diagnostic pathology. It has also informed neuroscience research, where SOX10 activity is central to understanding myelination and repair following injury. The antibody continues to provide value in studies of transcriptional regulation and lineage identity.

NSJ Bioreagents supplies this Recombinant SOX10 antibody to support investigations into neural crest biology, glial development, and oncology. The protein is also described as transcription factor SOX10 antibody, SRY related HMG box

factor 10 antibody, neural crest lineage regulator antibody, and Waardenburg syndrome gene antibody.

Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant SOX10 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Amino acids 115-269 of the human protein were used as the immunogen for the recombinant SOX10 antibody.

Storage

Store the recombinant SOX10 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).