

SOX11 [CL0124]

Format	Catalog No.	Pack size	Dilution
Concentrated	G154138 A, B, C	0.1, 0.5, 1.0 mL	1:100 - 200
Prediluted	G154138 AA, BB	6.0, 3.0 mL	Ready to use

ANTIBODY SPECIFICATIONS

- **HOST SPECIES:** Mouse
- **CLONE:** CL0124
- **ISOTYPE:** IgG2a
- **CELLULAR LOCALIZATION:** Nuclear
- **IMMUNOGEN:** Recombinant fragment corresponding to amino acids 56-166 of human SOX-11.
- **MOLECULAR WEIGHT:** ~46.68 kDa
- **SPECIES REACTIVITY:** Human; others not tested
- **POSITIVE CONTROL:** Mantle Cell Lymphoma

INTENDED USE

This antibody is intended **for research use only (RUO)** and is not approved for diagnostic or therapeutic applications. It is optimized for the detection of SOX11 protein in formalin-fixed, paraffin-embedded (FFPE) human tissues by immunohistochemistry (IHC).

SUMMARY AND APPLICATION

Factor of transcription - The group C SOX (SRY-related HMG-box) transcription factor family, of which SOX-11 is a member, controls embryonic development and determines cell fate. Once the encoded protein forms a protein complex with other proteins, it may function as a transcriptional regulator. The protein contributes to adult neurogenesis and tumorigenesis and may have a role in the developing nervous system. Gliomas, medulloblastoma, and the developing human central nervous system all typically express SOX-11 antibodies.

SCIENTIFIC BACKGROUND:

Compared to cyclin D1, SOX-11 antibody nuclear expression is greater and more uniform, and it is strongly linked to both cyclin D1-positive and cyclin D1-negative mantle cell lymphomas. One feature of indolent mantle cell lymphoma (MCL) may be the lack of SOX-11 expression. For the diagnosis of cutaneous mantle cell lymphoma, the combined SOX-11 and cyclin D1 immunohistostaining method has 100% sensitivity and specificity. In addition, SOX-11 has been found to be overexpressed in malignant gliomas and in rare instances of Burkitt lymphoma, lymphoblastic lymphoma, and T cell prolymphocytic leukaemia.

RECOMMENDED USAGE

- **IHC Protocol Highlights:**
 - Dilution: 1–2 µg/mL
 - Incubation: 30 minutes at room temperature

- o Antigen Retrieval: Heat in 10 mM Tris with 1 mM EDTA (pH 9.0) at 95°C for 45 minutes, followed by cooling
- **Specimen Type:** FFPE sections, preferably ~4 µm

FORMULATION & STORAGE:

- Buffer: 10 mM PBS, 0.05% BSA, 0.05% sodium azide
- Storage:
 - o Dilution: 1–2 µg/ML
 - o Without azide: –20 to –80°C
- Shelf Life: 24 months under proper conditions
- Hazard Classification: Non-hazardous; no MSDS required

LIMITATIONS

- Interpretation must be made by a qualified pathologist
- Tissue fixation and handling may affect staining quality
- Negative results do not always indicate absence of antigen—consider panel testing

PRECAUTIONS

- Contains 0.05% sodium azide – avoid ingestion and contact with skin or mucosa
- Wear gloves and avoid contact with eyes or mucosa
- Do not use reagents past expiration or if packaging appears compromised
- Do not pipette by mouth or reuse slides/containers without proper sterilization

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com