

# SOX10 clone SOX10/1074

## Instructions for Use

### Specification:

Recognizes a protein of ~55kDa, identified as SOX10. This MAb is highly specific and does not cross-react with other members of the SOX-family. SOX genes comprise a family of genes that are related to the mammalian sex-determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA binding activity. SOX-10 is a sensitive marker of melanoma, including conventional, spindle, and desmoplastic subtypes. It is expressed by metastatic melanomas and nodal capsular nevus in sentinel lymph nodes, but not by other lymph node components such as dendritic cells, which usually express S100 protein. Commonly used melanoma markers, such as anti-HMB-45 and anti-Melan-A, are poorly expressed in desmoplastic melanomas while SOX-10 is moderately to strongly expressed in desmoplastic melanomas. SOX-10 is considered as a very reliable marker for recognizing residual desmoplastic melanomas. In normal tissues, it is expressed in Schwann cells, melanocytes, and myoepithelial cells of salivary, bronchial and mammary glands. SOX-10 expression is also observed in mast cells.

### Availability:

Catalog No.	Contents	Volume
ILM6663-C01	SOX10	0,1 ml concentrate
ILM6663-C05	SOX10	0,5 ml concentrate
ILM6663-C1	SOX10	0,1 ml concentrate

**Intended use:** For Research Use Only

**Reactivity:** Human. Others not known.

**Clone:** SOX10/1074

**Species of origin:** Mouse

**Isotype:** IgG2b, Kappa

**Control Tissue:** Melanomas, breast carcinomas, gliomas

**Staining:** Nuclear

**Immunogen:** Recombinant fragment (155 Amino residues between aa 100-300) of human SOX10 protein

**Presentation:** Bioreactor Concentrate with 0.05% Azide

### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of cryostat tissue sections (dilution up to 1:100-1:200)
- Paraffin embedded tissue section (dilution up to 1:100-1:200)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

### References:

- 1) Mohamed A, et al, Mol Morphol. 2013; 21(6):506-10.