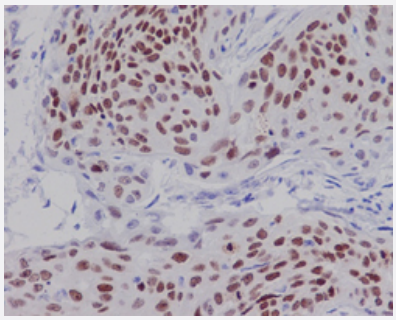
# SOX2 monoclonal antibody, clone BIO-19

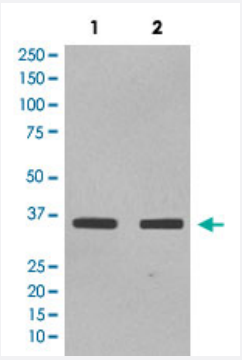
Catalog # MAB20737 Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix carcinoma with SOX2 monoclonal antibody, clone BIO-19 (Cat # MAB20737).




### Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NCCIT and Lane 2: F9 cell lysates with SOX2 monoclonal antibody, clone BIO-19 (Cat # MAB20737).

## Specification

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|---|---|
| **Product Description** | Rabbit monoclonal antibody raised against synthetic peptide of human SOX2. |
| **Immunogen** | A synthetic peptide corresponding to human SOX2. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 34.31 |
| **Reactivity** | Human |
| **Form** | Liquid |

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|---|---|
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200)<br>Western Blot (1:1000-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide). |
| **Storage Instruction** | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix carcinoma with SOX2 monoclonal antibody, clone BIO-19 (Cat # MAB20737).

- Immunofluorescence

- Immunocytochemistry

- Western Blot (Cell lysate)

  Western Blot analysis of Lane 1: NCCIT and Lane 2: F9 cell lysates with SOX2 monoclonal antibody, clone BIO-19 (Cat # MAB20737).

## Gene Info — SOX2

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|---|---|
| **Entrez GeneID** | 6657 |
| **Protein Accession#** | P48431 |
| **Gene Name** | SOX2 |
| **Gene Alias** | ANOP3, MCOPS3, MGC2413 |
| **Gene Description** | SRY (sex determining region Y)-box 2 |

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| | |
|---|---|
| **Omim ID** | 184429 206900 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2 OT). [provided by RefSeq |
| **Other Designations** | SRY-related HMG-box gene 2\|sex-determining region Y-box 2\|transcription factor SOX2 |

## Disease

- Anophthalmos
- Coloboma
- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Kidney Failure
- Microphthalmos
- Myopia

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