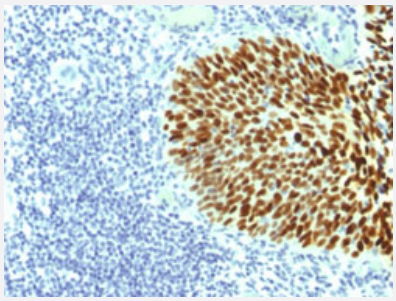
# SOX2 monoclonal antibody, clone SOX2/1791

Catalog # MAB14987 Size 100 ug

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix cancer with SOX2 monoclonal antibody, clone SOX2/1791 (Cat # MAB14987).

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against partial recombinant human SOX2. |
| **Immunogen** | Recombinant protein corresponding to amino acids 176-305 of human SOX2. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 34 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A/G purification |
| **Isotype** | IgG2b, kappa |
| **Recommend Usage** | ELISA (2-4 ug/mL for coating)<br>Flow Cytometry (0.5-1 ug/$10^6$ cells)<br>Immunofluorescence (1-2 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL)<br>Western Blotting (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |

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| **Storage Buffer** | In 10 mM PBS. |
| **Storage Instruction** | Store at -20 to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix cancer with SOX2 monoclonal antibody, clone SOX2/1791 (Cat # MAB14987).
- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

## Gene Info — SOX2

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

## Publication Reference

- Ancestry and diversity of the HMG box superfamily.

  Laudet V, Stehelin D, Clevers H.

  Nucleic Acids Research 1993 May; 21(10):2493.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

## Disease

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