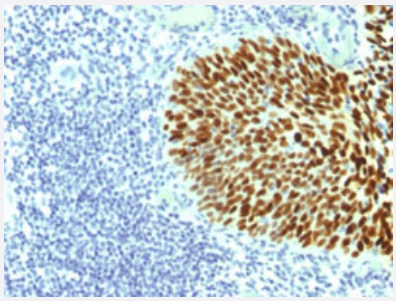
SOX2 monoclonal antibody, clone SOX2/1791

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

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) Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) 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. Aliquot to avoid repeated freezing and thawing.

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).

- Immunofluorescence
- Flow Cytometry
- Enzyme-linked Immunoabsorbent Assay
- Western Blot

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

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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

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