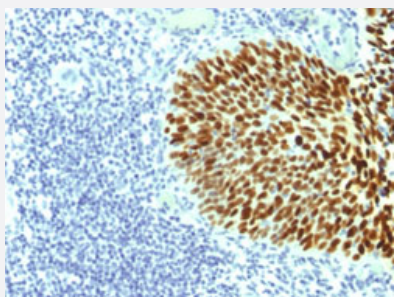


SOX2 monoclonal antibody, clone SOX2/1791

Catalog # MAB14986 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 # MAB14986).

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	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.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).

Storage Instruction

Store at 4°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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 # MAB14986).
- Immunofluorescence
- 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](#)