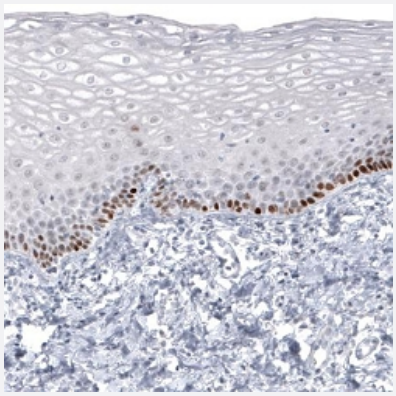
Sm Size

SOX2 monoclonal antibody, clone CL4716

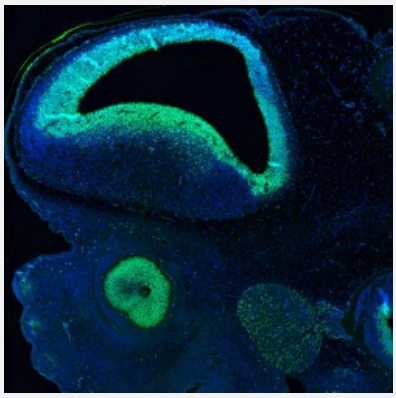
Catalog # MAB15713 Size 25 uL, 100 uL

Applications



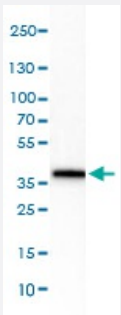
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix shows nuclear immunoreactivity in basal layer cells of squamous epithelium.



Immunofluorescence

Immunofluorescence staining of mouse embryo E11 shows nuclear immunoreactivity in the developing brain, eye and trigeminal ganglion.



Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of NTERA-2 cell lysate.

Specification

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Product Description	Mouse monoclonal antibody raised against partial recombinant human SOX2.
Immunogen	Recombinant protein corresponding to human SOX2.
Epitope	This antibody binds to an epitope located within the peptide sequence GYPQHPGLNA as determined by overlapping synthetic peptides.
Sequence	GSYSMMQDQLGYPQHPGLNAHGAAQMQPMHRYDVSALQYNSMTSSQTYMNGSPTYSMSYSQQGTPGMALGSM
Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:1000-1:2500) Immunofluorescence (1-4 ug/mL) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix shows nuclear immunoreactivity in basal layer cells of squamous epithelium.

- Immunofluorescence

  Immunofluorescence staining of mouse embryo E11 shows nuclear immunoreactivity in the developing brain, eye and trigeminal ganglion.

- Western Blot (Cell lysate)

  Western Blot (Cell lysate) analysis of NTERA-2 cell lysate.

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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

Disease

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

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