

## Datasheet

### SOX2 monoclonal antibody, clone SOX2/1792

**Catalog Number:** MAB14989

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against partial recombinant human SOX2.

**Clone Name:** SOX2/1792

**Immunogen:** Recombinant protein corresponding to amino acids 176-305 of human SOX2.

**Host:** Mouse

**Theoretical MW (kDa):** 34

**Reactivity:** Human

**Applications:** ELISA, Flow Cyt, IF, IHC-P, WB  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**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<sup>6</sup> 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.

**Storage Instruction:** Store at -20 to -80 °C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 6657

**Gene Symbol:** SOX2

**Gene Alias:** ANOP3, MCOPS3, MGC2413

**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 (SOX2OT). [provided by RefSeq]

#### References:

1. Ancestry and diversity of the HMG box superfamily. Laudet V, Stehelin D, Clevers H. *Nucleic Acids Res.* 1993 May 25;21(10):2493-501.