

Datasheet

SOX2 polyclonal antibody

Catalog Number: PAB3876

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of SOX2.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human SOX2.

Host: Rabbit

Reactivity: Human

Applications: Flow Cyt, IF, IHC-P, WB-Ce, WB-Tr
(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: Ammonium sulfate precipitation

Recommend Usage: Flow Cytometry (1:10-50)
Immunofluorescence (1:10-50)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50)
Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°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. Crystal structure of a POU/HMG/DNA ternary complex suggests differential assembly of Oct4 and Sox2 on two enhancers. Remenyi A, Lins K, Nissen LJ, Reinbold R, Scholer HR, Wilmanns M. *Genes Dev.* 2003 Aug 15;17(16):2048-59.
2. POU5F1 (OCT3/4) identifies cells with pluripotent potential in human germ cell tumors. Looijenga LH, Stoop H, de Leeuw HP, de Gouveia Brazao CA, Gillis AJ, van Roozendaal KE, van Zoelen EJ, Weber RF, Wolfenbittel KP, van Dekken H, Honecker F, Bokemeyer C, Perlman EJ, Schneider DT, Kononen J, Sauter G, Oosterhuis JW. *Cancer Res.* 2003 May 1;63(9):2244-50.
3. Formation of pluripotent stem cells in the mammalian embryo depends on the POU transcription factor Oct4. Nichols J, Zevnik B, Anastassiadis K, Niwa H, Klewe-Nebenius D, Chambers I, Scholer H, Smith A. *Cell.* 1998 Oct 30;95(3):379-91.