



Anti-SOX2 (full length) polyclonal antibody (DPAB-DC2940)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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).
Immunogen	SOX2 (AAH13923, 1 a.a. ~ 317 a.a) full-length recombinant protein with GST tag. The sequence is MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSRGHRRKMA QENPKMHNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDYKYRPRRKTTLM KKDKYTLPGLLAPGGNSMASGVGVGAGLGAGVNRMDSYAHMNGWSNGSYSMMQDQLGY PQHPGLNAHGAAQMOPMRYDVSALQYNSMTSSQTYMNGSPTYSMSYSQQGTPGMALGSM GSVVKSEASSPPVVTSSSHSRAPCQAGDLRDMISMYLPGAEVPEPAAPSRLHMSQHYQS GPVPGTAINGTLPLSHM
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	SOX2 SRY (sex determining region Y)-box 2 [Homo sapiens (human)]
Official Symbol	SOX2
Synonyms	SOX2; SRY (sex determining region Y)-box 2; ANOP3; MCOPS3; transcription factor SOX-2; transcription factor SOX2; SRY-related HMG-box gene 2;
Entrez Gene ID	6657
Protein Refseq	NP_003097
UniProt ID	P48431
Chromosome Location	3q26.3-q27
Pathway	Cardiac Progenitor Differentiation; Hippo signaling pathway; POU5F1 (OCT4), SOX2, NANOG activate genes related to proliferation; SIDS Susceptibility Pathways
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin binding; miRNA binding
