SOX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SOX2, Polyclonal Antibody
Full Product Name	Mouse SOX2 (N-Term) Rabbit pAb
Product Gene Name	anti-SOX2 antibody
Product Synonym Names	Transcription factor SOX-2; Sox2; Sox-2
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
3D Structure	ModBase 3D Structure for P48432
Immunogen	This mouse Sox2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 34-68 amino acids from the N-terminal region of mouse Sox2.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SOX2 antibody	Western Blot (WB)
Application Notes for anti-SOX2 antibody	WB: 1:1000
Related Product Information for anti-SOX2 antibody	MBS8557052 is an antibody targeting SOX2. Also known as Mouse SOX2 (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SOX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX2. It may not necessarily be applicable to this product.

NCBI GI #	127140986
NCBI GeneID	20674
NCBI Accession #	NP_035573.3
UniProt Primary Accession #	P48432
UniProt Related Accession #	P48432
GenBank Nucleotide #	NP_035573.3
NCBI Official Full Name	transcription factor SOX-2

NCBI Official Synonym Full Names	SRY (sex determining region Y)-box 2
NCBI Official Symbol	Sox2
NCBI Official Synonym Symbols	lcc; ysb; Sox-2
UniProt Protein Name	Transcription factor SOX-2
UniProt Gene Name	Sox2
UniProt Synonym Gene Names	Sox-2
NCBI Protein Information	transcription factor SOX-2
NCBI Summary for SOX2	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 a similar gene in human 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, Sep 2015]
UniProt Comments for SOX2	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation ().
Research Articles on SOX2	**1.** Large-intergenic noncoding RNA, Linc1614, served as a specific partner of core factor Sox2 in maintaining pluripotency, primarily by mediating the function of Sox2 in the repression of developmental genes. Moreover, Ezh2, an essential subunit of polycomb repressive complex 2 (PRC2), physically interacted with linc1614 and contributed to lincRNA-mediated transcriptional silencing.
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