

Rabbit anti-Human SOX2 Monoclonal Antibody | anti-SOX2 antibody

SOX2 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282684	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SOX2; Monoclonal Antibody; SOX2 Rabbit mAb; ANOP3; MCOPS3; anti-SOX2 antibody

PRODUCT SPECIFICATIONS

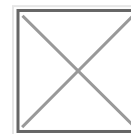
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL
Applicable Applications for anti-SOX2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SOX2 (NP_003097.1).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



ICC (Immunocytochemistry)

Confocal imaging of mouse brain(frozen section) using SOX2 Rabbit mAb (AAA282684, at dilution of 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 40x. Perform microwave antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.



WB (Western Blot)

Western blot analysis of various lysates using SOX2 Rabbit mAb (AAA282684) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX2 antibody

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).

Product Categories/Family for anti-SOX2 antibody

Epigenetics Nuclear Signaling; Transcription Factors; Signal Transduction; Cell Biology Developmental Biology; ESC Pluripotency and Differentiation; Neuroscience; Cell Type Marker; Stem Cells; Embryonic Stem Cells; Germline Stem Cells; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	28195386
NCBI GeneID	6657
NCBI Accession #	NP_003097.1
NCBI GenBank Nucleotide #	NM_003106.3
UniProt Accession #	P48431; Q14537
Molecular Weight	Calculated MW: 34kDa Observed MW: 38kDa
UniProt Protein Name	Transcription factor SOX-2
UniProt Gene Name	SOX2
UniProt Entry Name	SOX2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/sox2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282684>