

Rabbit SOX2 Polyclonal Antibody | anti-SOX2 antibody

SOX2

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72835	Rabbit	Reactivity assumed based on 100% sequence homology: Human	Western Blot

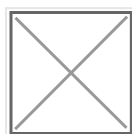
PRODUCT SYNONYMS

SOX2; Polyclonal Antibody; anti-SOX2 antibody

PRODUCT SPECIFICATIONS

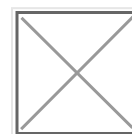
Host	Rabbit
Reactivity	Reactivity assumed based on 100% sequence homology: Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified from Pooled Serum
Form/Format	100ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100ug BSA per ml and 50% glycerol.
Applicable Applications for anti-SOX2 antibody	WB (Western Blot)
Species Positively Tested	Mouse
Immunogen Species	Human
Immunogen Information	Fusion protein from the C-terminal region of human SOX2 protein
Antigen	Fusion protein from the C-terminal region of human SOX2 protein.
Preparation and Storage	Storage at -20 degree C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20 degree C. Shipping: Blue Ice Country of Origin: USA

IMAGES



Application Data

DYKDDDDK-tagged SOX2 transfected COS cells showing SOX2 staining in red (Cat.# AAA72835, 1:20) and DYKDDDDK staining in green, causing positive transfected cells to appear yellow. DNA is stained blue with DAPI.



WB (Western Blot)

Western blot of NIH 3T3 cell lysate showing specific immunolabeling of the ~35 kDa SOX2 protein.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX2 antibody	SOX2 (SRY (sex-determining region Y)-box 2) is one of 20 members of the Sox family proteins that play essential roles in cell differentiation, development, and organogenesis. SOX2, a group B Sox family protein, is one of the master transcriptional factors, along with Oct3/4 (Nichols, J., et al, 1998) and PAK6 (Kamachi, Y. et al, 2001) that are important in maintaining the pluripotency of embryonic stem cells, thus making SOX2 an excellent marker of neural stem cells. SOX2 has also been identified as a lineage-survival oncogene in lung and esophageal squamous cell carcinomas due to peak amplification on chromosome 3q26.33 which contains the SOX2 gene transcription factor (Bass, A.J., et al, 2009). Additionally, Sox2 has been reported to be highly deregulated in glioblastomas (Gangemi, R. M. R, et al, 2009) and breast cancer (Rodriguez-Pinilla, S.M., et al, 2007).
Product Categories/Family for anti-SOX2 antibody	Cell Markers; Neurogenesis and Development; Neuronal Markers

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	34kDa
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	ANOP3; MCOPS3
NCBI Protein Information	transcription factor SOX-2; transcription factor SOX2; SRY-related HMG-box gene 2
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/sox2-antibody-western-blot-elisa/72835>