

Rabbit phospho-Sox2 (S246) Polyclonal Antibody | anti-SOX2 antibody

phospho-Sox2 (S246) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286283	Rabbit	Human (Predicted Reactivity: Mouse)	ELISA, Dot Blot, Immunofluorescence

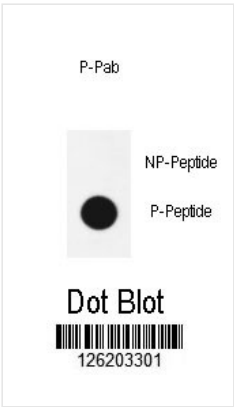
PRODUCT SYNONYMS

phospho-Sox2 (S246); Polyclonal Antibody; phospho-Sox2 (S246) Antibody; Transcription factor SOX-2; SOX2; anti-SOX2 antibody

PRODUCT SPECIFICATIONS

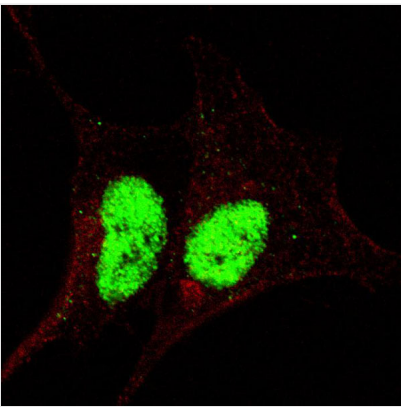
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Sox2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S246 of human Sox2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.45 (varies by lot)
Sequence Length	317
Applicable Applications for anti-SOX2 antibody	ELISA, DB (Dot Blot), IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



DB (Dot Blot)

Dot blot analysis of anti-phospho-Sox2-pS246 Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.



IF (Immunofluorescence)

Fluorescent confocal image of SY5Y cells stained with phospho-Sox2- S246 antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA286283 phospho-Sox2- S246 primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the phospho-Sox2 immunosignal mainly to the nucleus.

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	Developmental Biology ; Neuroscience ; Signal Transduction ; Phospho Antibodies
References	References for protein: 1.Gen, Y., et al. Cancer Genet. Cytogenet. 202(2):82-93(2010) 2.Ji, J., et al. Hum. Pathol. 41(10):1438-1447(2010) 3.Fang, X., et al. OMICS 14(4):369-384(2010) 4.Sholl, L.M., et al. Am. J. Surg. Pathol. 34(8):1193-1198(2010) 5.Zhang, D., et al. BMC Med. Genet. 11, 116 (2010) References for SY5Y (SH-SY5Y; #CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704].

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	34310

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
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://www.aaabiotech.com/polyclonal/phospho-sox2-s246-antibody-dot-blot-immunofluorescence-elisa/286283>