

## Rabbit Sox2 Polyclonal Antibody | anti-Sox2 antibody

Phospho-sox2 (Ser249/250) Antibody

| CATALOG # | HOST   | REACTIVITY                                                         | APPLICATIONS                              |
|-----------|--------|--------------------------------------------------------------------|-------------------------------------------|
| AAA328551 | Rabbit | Human, Mouse, RatPredicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Sox2; Polyclonal Antibody; Phospho-sox2 (Ser249/250) Antibody; ANOP3; cb236; Delta EF2a; lcc; MCOPS3; MGC148683; MGC2413; RGD1565646; Sex determining region Y box 2; SOX 2; SOX2\_HUMAN; SRY (sex determining region Y) box 2; SRY box containing gene 2; SRY related HMG box 2; SRY related HMG box gene 2; SRY-box 2; Transcription factor SOX 2; Transcription factor SOX-2; ysb; anti-Sox2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                             |
| Reactivity                                     | Human, Mouse, Rat<br>Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog                                                             |
| Clonality                                      | Polyclonal                                                                                                                         |
| Isotype                                        | IgG                                                                                                                                |
| Specificity                                    | Phospho-sox2 (Ser249/250) Antibody detects endogenous levels of sox2 only when phosphorylated at Ser249/250.                       |
| Purity/Purification                            | Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Form/Format                                    | Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                        |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                                | 317                                                                                                                                |
| Applicable Applications for anti-Sox2 antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                               |
| Immunogen                                      | A synthesized peptide derived from human sox2 around the phosphorylation site of Ser249/250.                                       |
| Subcellular Location                           | Nucleus                                                                                                                            |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |

### IMAGES



#### WB (Western Blot)

Western blot analysis of Phospho-sox2 (Ser249/250) in lysates of NCCIT cells, using Phospho-sox2 (Ser249/250) Antibody.



#### IHC (Immunohistochemistry)

At 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### IHC (Immunohistochemistry)

At 1/100 staining rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



#### IHC (Immunohistochemistry)

At 1/100 staining mouse heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

## ADDITIONAL INFORMATION

### Related Product Information for anti-Sox2 antibody

Description: 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 (By similarity). 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 (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

Post Translational Modifications: Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.

Subunit Structure: Interacts with ZSCAN10. Interacts with SOX3 and FGFR1.

## NCBI AND UNIPROT INFORMATION

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| NCBI GI #                        | <a href="#">28195386</a>                |
| NCBI GeneID                      | <a href="#">6657</a>                    |
| NCBI Accession #                 | <a href="#">NP_003097.1</a>             |
| NCBI GenBank Nucleotide #        | <a href="#">NP_003097.1</a>             |
| UniProt Accession #              | <a href="#">P48431</a>                  |
| Molecular Weight                 | Observed: 34.3 kDa<br>Predicted: 35 kDa |
| NCBI Official Full Name          | transcription factor SOX-2              |
| NCBI Official Synonym Full Names | SRY-box transcription factor 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                | <b>SOX2</b>                             |
| 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/polyclonal/sox2-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328551>