

## Rabbit anti-Human, Mouse SOX2 Antibody | anti-SOX2 antibody

SOX2 (Embryonic Stem Cell Marker)

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                              |
|-----------|--------|--------------|-------------------------------------------|
| AAA215202 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot, ELISA |

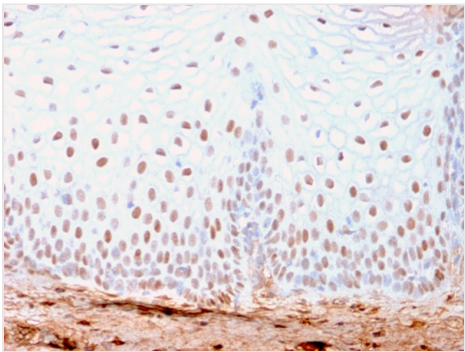
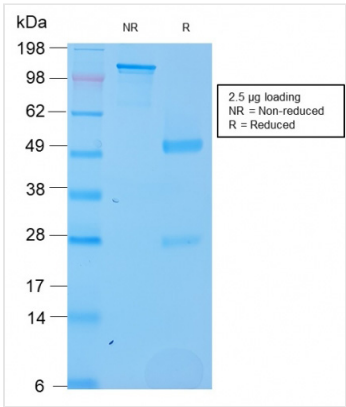
### PRODUCT SYNONYMS

SOX2; SOX2 (Embryonic Stem Cell Marker); ANOP3; Delta EF2a; MCOPS3 (Microphthalmia Syndromic type 3); SOX-2; SRY (sex determining region Y) box 2; SRY related HMG box 2; Transcription factor SOX-2; ysb; anti-SOX2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone Number                                   | SOX2/3169R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity                                    | SOX2 is required for stem cell maintenance in the central nervous system, and it also regulates gene expression in the stomach. SOX2 is necessary for regulating multiple transcription factors that affect Oct 3/4 expression. An essential function of SOX2 is to stabilize embryonic stem cells in a pluripotent state by maintaining the requisite level of Oct 3/4 expression. Reportedly, SOX2 is associated with aggressive phenotypes of breast, head and neck, gastric, colorectal, bladder, and small cell lung cancers. However, SOX2 is expressed in a high percentage of lung squamous cell carcinomas and has been shown to be an independent favorable prognostic marker. |
| Purity/Purification                            | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                    | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                                | 317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-SOX2 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Positive Control                               | A549, NCCIT cells. Lung or Cervical carcinoma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen                                      | Recombinant fragment (within aa176-305) of human SOX2 protein (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cellular Localization                          | Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hu-chromosome Location                         | 3q26.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Antibody Type                                  | Recombinant Rabbit Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                        | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Skin stained with SOX2 Recombinant Rabbit Monoclonal Antibody (SOX2/3169R).

**SDS-PAGE**  
SDS-PAGE Analysis Purified SOX2 Recombinant Rabbit Monoclonal Antibody (SOX2/3169R). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

|            |                                                              |
|------------|--------------------------------------------------------------|
| References | Laudet, V., et al, H. 1993. Nucleic Acids Res. 21: 2493-2501 |
|------------|--------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 28195386                       |
| NCBI GeneID                      | 6657                           |
| NCBI Accession #                 | NP_003097.1                    |
| NCBI GenBank Nucleotide #        | NP_003097.1                    |
| UniProt Accession #              | P48431                         |
| Molecular Weight                 | 34kDa                          |
| 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                | 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.