

## Rabbit SOX2 Polyclonal Antibody | anti-SOX2 antibody

SOX2 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA36760  | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

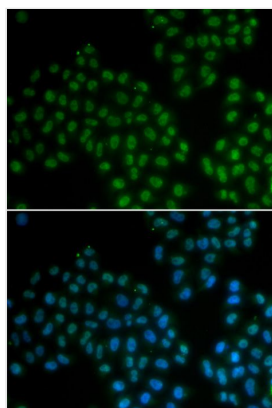
### PRODUCT SYNONYMS

SOX2; Polyclonal Antibody; SOX2 Polyclonal Antibody; ANOP3; MCOPS3; MGC2413; anti-SOX2 antibody

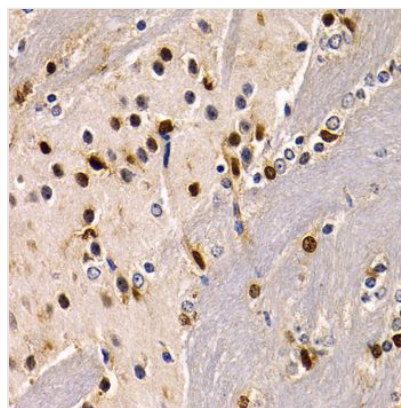
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                       |
| Reactivity                                     | Human, Mouse, Rat                                                                                            |
| Clonality                                      | Polyclonal                                                                                                   |
| Isotype                                        | IgG                                                                                                          |
| Purity/Purification                            | Affinity Purification                                                                                        |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                       |
| Sequence Length                                | 317                                                                                                          |
| Applicable Applications for anti-SOX2 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                       |
| Species                                        | Human                                                                                                        |
| Immunogen                                      | Recombinant Protein                                                                                          |
| Immunogen                                      | Recombinant protein of human SOX2                                                                            |
| Calculated Molecular Weight                    | 34kDa                                                                                                        |
| Preparation and Storage                        | Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3. |

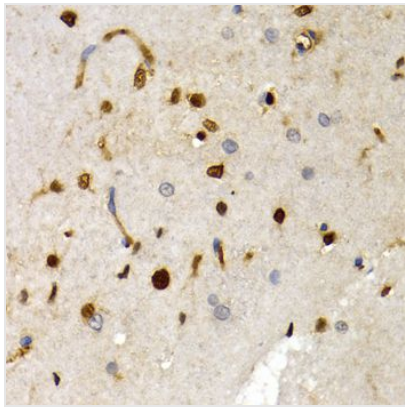
### IMAGES


**IF (Immunofluorescence)**

Immunofluorescence analysis of A549 cells using SOX2 antibody.

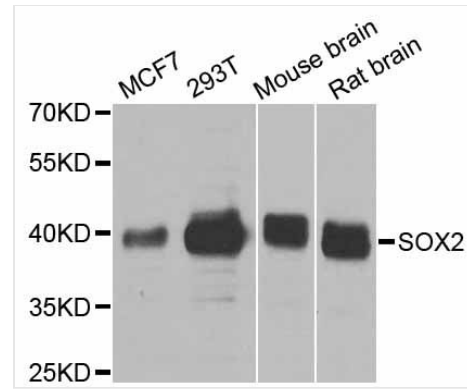

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded mouse brain using SOX2 antibody at dilution of 1:200 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat brain using SOX2 antibody at dilution of 1:200 (40x lens).



#### WB (Western Blot)

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

## ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SOX2 antibody</b> | Embryonic stem cells are derived from the inner cell mass of the blastocyst and are unique in their pluripotent capacity and potential for self-renewal. Sox2 is one of a set of transcription factors that are crucial for the maintenance of pluripotency (1). Sox2, Oct-4, and Nanog cooperate in this network (1-3), and siRNA knockdown of either Sox2 or Oct-4 results in loss of pluripotency (4,5). Chromatin immunoprecipitation experiments have shown that Sox2 and Oct-4 bind to thousands of gene regulatory sites, highlighting the importance of these transcription factors in early embryonic development (6,7). It has recently been shown that Sox2 is amplified in lung and esophageal squamous cell tumors (8). |
| <b>Product Categories/Family for anti-SOX2 antibody</b>   | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 1351091                                                                           |
| <b>NCBI GeneID</b>                      | 6657                                                                              |
| <b>UniProt Accession #</b>              | P48431; Q14537                                                                    |
| <b>Molecular Weight</b>                 | 317                                                                               |
| <b>NCBI Official Full Name</b>          | Transcription factor SOX-2                                                        |
| <b>NCBI Official Synonym Full Names</b> | SRY (sex determining region Y)-box 2                                              |
| <b>NCBI Official Symbol</b>             | SOX2                                                                              |
| <b>NCBI Official Synonym Symbols</b>    | ANOP3; MCOPS3                                                                     |
| <b>NCBI Protein Information</b>         | transcription factor SOX-2; transcription factor SOX2; SRY-related HMG-box gene 2 |
| <b>UniProt Protein Name</b>             | Transcription factor SOX-2                                                        |
| <b>UniProt Gene Name</b>                | SOX2                                                                              |
| <b>UniProt Entry Name</b>               | 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-immunofluorescence-immunohistochemistry-western-blot-elisa/36760>