

## Rabbit SOX2 Polyclonal Antibody | anti-SOX2 antibody

SOX2 antibody

|                               |                       |                                        |                                                         |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA308026</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|

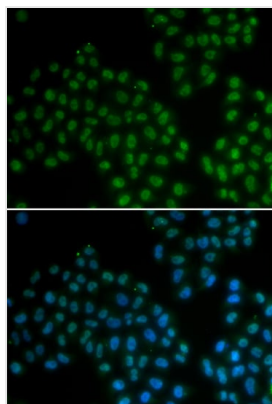
### PRODUCT SYNONYMS

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

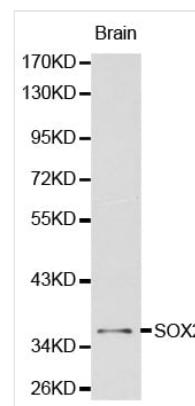
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                       |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                            |
| Clonality                                      | Polyclonal                                                                                                                                                   |
| Specificity                                    | The antibody detects endogenous level of total SOX2 antibody.                                                                                                |
| Purity/Purification                            | Antibodies were purified by affinity purification using immunogen.                                                                                           |
| Form/Format                                    | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1.0 mg/ml (varies by lot)                                                                                                                                    |
| Sequence Length                                | 317                                                                                                                                                          |
| Applicable Applications for anti-SOX2 antibody | IF (Immunofluorescence), WB (Western Blot)                                                                                                                   |
| Immunogen Type                                 | Recombinant Protein                                                                                                                                          |
| Immunogen Description                          | Recombinant protein of human SOX2.                                                                                                                           |
| Target Name                                    | SOX2                                                                                                                                                         |
| Preparation and Storage                        | Store at -20 degree C                                                                                                                                        |

### IMAGES


**IF (Immunofluorescence)**

Immunofluorescence analysis of MCF7 cell using SOX2 antibody. Blue: DAPI for nuclear staining.


**WB (Western Blot)**

Western blot analysis of brain cell lysate using SOX2 antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SOX2 antibody | 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). |
| Product Categories/Family for anti-SOX2 antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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                 | 34,310 Da                            |
| 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://stage.aaabiotech.com/polyclonal/sox2-antibody-immunofluorescence-western-blot-elisa/308026>