

## Rabbit SOX3 Polyclonal Antibody | anti-SOX3 antibody

Anti-SOX3 Antibody

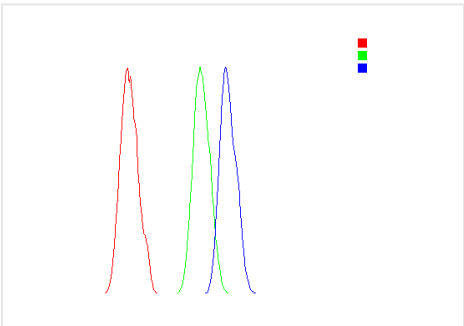
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA125645 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

SOX3; Polyclonal Antibody; Anti-SOX3 Antibody; Transcription factor SOX-3; SRY-box transcription factor 3; anti-SOX3 antibody

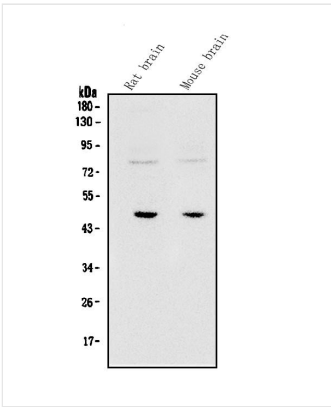
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                     |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                                                                                                                 |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                 |
| Specificity                                    | Rabbit IgG polyclonal antibody for SOX3 detection.                                                                                                                                                         |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                    | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg NaN <sub>3</sub> .                                                                              |
| Applicable Applications for anti-SOX3 antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                         |
| Immunogen                                      | E Coli-derived human SOX3 recombinant protein (Position: Q256-Q283).                                                                                                                                       |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                  | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-SOX3 antibody (AAA125645). Overlay histogram showing A431 cells stained with AAA125645 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SOX3 Antibody (AAA125645, 1µg/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SOX3 using anti-SOX3 antibody (AAA125645). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions. Lane 1: rat brain tissue lysates. Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SOX3 antigen affinity purified polyclonal antibody (Catalog # AAA125645 at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SOX3 at approximately 45KD. The expected band size for SOX3 is at 45KD.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SOX3 antibody | Transcription factor SOX-3 is a protein that in humans is encoded by the SOX3 gene. This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. Mutations in this gene have been associated with X-linked cognitive disability with growth hormone deficiency. |
| References                                         | 1. "Entrez Gene: SOX3 SRY (sex determining region Y)-box 3".<br>2. Woods KS, Cundall M, Turton J, Rizotti K, Mehta A, Palmer R, Wong J, Chong WK, Al-Zyoud M, El-Ali M, Otonkoski T, Martinez-Barbera JP, Thomas PQ, Robinson IC, Lovell-Badge R, Woodward KJ, Dattani MT (May 2005). "Over- and underdosage of SOX3 is associated with infundibular hypoplasia and hypopituitarism". American Journal of Human Genetics. 76 (5): 833-49.                                                                     |

NCBI AND UNIPROT INFORMATION

|                         |                                |
|-------------------------|--------------------------------|
| NCBI GI #               | 530020                         |
| UniProt Accession #     | P41225; P35714; Q5JWI3; Q9NP49 |
| Molecular Weight        | 45,210 Da                      |
| NCBI Official Full Name | SOX3                           |
| UniProt Protein Name    | Transcription factor SOX-3     |
| UniProt Gene Name       | SOX3                           |
| UniProt Entry Name      | SOX3_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.