

Alexa Fluor® 647 anti-SOX17 Recombinant Antibody (For Flow Cytometry)

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| Catalog# / Size | 628157 / 25 tests 628158 / 100 tests |
| Clone | O92B6.Rec |
| Regulatory Status | RUO |
| Other Names | Transcription factor SOX17, Transcription factor SOX 17, Transcription factor SOX-17, VUR3, SRY-Box17, SRY-Related HMG-Box Transcription Factor 17 |
| Isotype | Mouse IgG1, κ |
| Description | <p>SOX17 is an important member of the SOX family of transcription factors, which are defined by possession of a homologous sequence called the HMG (high mobility group) box. SOX genes are primarily involved in developmental processes including germ layer formation, cell-type specification, and organogenesis. SOX17 activates endodermal target genes, and is required for the formation of endoderm and blood vessel endothelium. SOX17 also plays critical roles in the maintenance of fetal and neonatal hematopoietic stem cells. Additionally, SOX17 is a regulator of human primordial germ cell fate.</p> |

SOX17 also acts as a tumor suppressor through suppression of Wnt signaling, and a reduction of SOX17 expression is found in gastrointestinal and colon carcinomas. Additionally, mutations in SOX17 can induce stem-like characteristics in tumor cells by causing SOX17 to dimerize with OCT4 and induce pluripotency transcriptional programs.

Product Details

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| Verified Reactivity | Human |
| Antibody Type | Recombinant |
| Host Species | Mouse |
| Immunogen | Recombinant protein expressed in E. Coli corresponding to residues 177-414 of human SOX17 |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | ICFC - Quality tested |
| Recommended Usage | <p>Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p> |
| Excitation Laser | Red Laser (633 nm) |
| Application Notes | This antibody is recommended for intracellular staining for flow cytometry (ICFC) but not immunocytochemistry (ICC) or immunohistochemistry (IHC use). This product has been optimized for flow cytometry application. |

For use in ICC, and IHC on FFPE tissues (IHC-P), we recommend Cat. No. 628159 and 628160. This product has been optimized for imaging applications.

RRID AB_3675167 (BioLegend Cat. No. 628157)
AB_3675167 (BioLegend Cat. No. 628158)

Antigen Details

Structure SOX17 is a 414 amino acid protein with a predicted molecular weight of 44.1 kD.

Distribution Nucleus

Function Transcription factor

Interaction Interacts with CTNNB1, LEF1, TCF4

Biology Area Cell Biology, Signal Transduction, Transcription Factors

Antigen References

1. Wegner M. 1999. *Nucleic Acids Res.* 27:1409-20.
2. Du YC, et al. 2009. *Gastroenterology.* 137:1346-57.
3. Zorn AM, et al. 1999. *Mol Cell.* 4:487-98.
4. Sinner D, et al. 2004. *Development.* 131:3069-80.
5. Hudson C, et al. 1997. *Cell.* 91:397-405.
6. Matsui T, et al. 2006. *J Cell Sci.* 119:3513-26.
7. Kim I, et al. 2007. *Cell.* 130:470-83.
8. Zhang W, et al. 2008. *Cancer Res.* 68:2764-72.
9. Tan DS, et al. 2020. *Semin Cancer Biol.* 67:65-73.
10. Irie N, et al. 2015. *Cell.* 160:253-68.

Gene ID [64321](#)

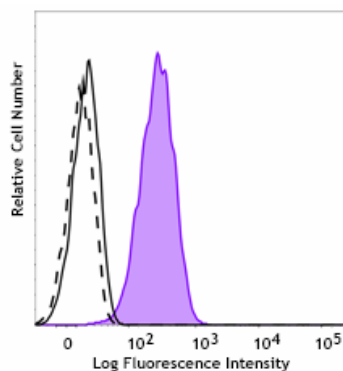
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-SOX17 Recombinant Antibody, Alexa Fluor® 647 anti-SOX17 Recombinant Antibody (For Flow Cytometry), Alexa Fluor® 647 anti-SOX17 Recombinant Antibody (for IHC and ICC), Alexa Fluor® 488 anti-SOX17 Recombinant Antibody

Product Data



OVCAR-3 cells (positive control, filled histogram), and HeLa cells (negative control, open histogram) were fixed and permeabilized using the True-Phos™ Perm Buffer Set (Cat. No. 425401) and intracellularly stained with Alexa Fluor® 647 anti-SOX17 Recombinant (clone O92B6.Rec) or Alexa Fluor® 647 mouse IgG1, κ isotype control (Cat. No. 400136) (open histogram, dashed line; representative histogram for both cell lines).

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