

Alexa Fluor® 488 anti-SOX17 Recombinant Antibody

Catalog# / Size	628161 / 25 tests 628162 / 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

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® 488 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 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® 488 has a maximum emission of 519 nm when it is excited at 488 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	Blue Laser (488 nm)
Application Notes	<p>This antibody (clone O92B6.Rec) does not cross-react with mouse SOX17 in western blot (WB).</p> <p>For immunohistochemistry (IHC), we recommend antigen retrieval with either Tris-EDTA (10 mM</p>

Tris, 1 mM EDTA, 0.05% Tween-20, pH 9.0) or Sodium Citrate (Cat. No. 928502).

For immunocytochemistry (ICC), we recommend fixation with Fixation Buffer (Cat. No. 420801) followed by permeabilization with either 100% ice-cold methanol or 0.5% Triton-X. Fixation and permeabilization with 100% ice-cold methanol alone is not recommended.

RRID AB_3699065 (BioLegend Cat. No. 628161)
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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](#)

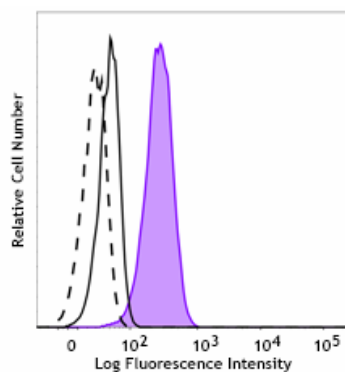
Related Protocols

- [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 cell (negative control, open histogram) were fixed and permeabilized using the True-Phos™ Perm Buffer Set (Cat. No. 425401) and intracellularly stained with Alexa Fluor® 488 anti-SOX17 Recombinant (clone O92B6.Rec) or Alexa Fluor® 488 mouse IgG1, κ isotype control (Cat. No. 400132) (open histogram, dashed line; representative histogram for both cell lines).

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