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SOX17 Antibody
Catalog # ASC11830

Specification

SOX17 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q9H6I2
Other Accession	NP_071899, 11967991
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 46 kDa** **Observed: 42 kDa KDa**
Application Notes	**SOX17 antibody can be used for detection of SOX17 by Western blot at 0.5 - 1 µg/ml. For immunofluorescence start at 20 µg/mL.**

SOX17 Antibody - Additional Information

Gene ID **64321**

Target/Specificity
SOX17; SOX17 antibody is human, mouse and rat reactive. SOX17 is predicted to not cross-react with other SOX proteins.

Reconstitution & Storage
SOX17 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
SOX17 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SOX17 Antibody - Protein Information

Name SOX17

Function
Acts as a transcription regulator that binds target promoter DNA and bends the DNA. Binds to the sequences 5'-AACAAT-'3 or 5'- AACAAAG-3'. Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development. Required for normal development of the definitive gut endoderm. Required for normal looping of the embryonic heart tube. Plays an important role in embryonic and postnatal vascular development, including development of arteries. Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX18. Required for the generation and maintenance of fetal hematopoietic stem cells, and for fetal hematopoiesis. Probable transcriptional activator in the premeiotic germ cells.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267}.

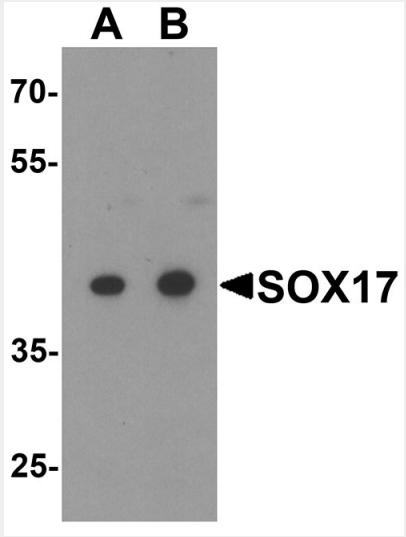
Tissue Location
Expressed in adult heart, lung, spleen, testis, ovary, placenta, fetal lung, and kidney. In normal gastrointestinal tract, it is preferentially expressed in esophagus, stomach and small intestine than in colon and rectum.

SOX17 Antibody - Protocols

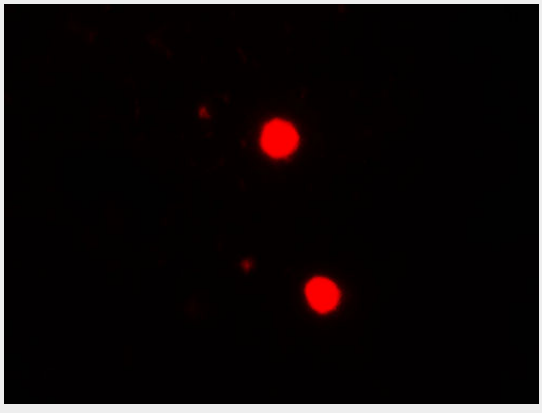
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOX17 Antibody - Images



Western blot analysis of SOX17 in HepG2 cell lysate with SOX17 antibody at (A) 0.5 and (B) 1 µg/ml.



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Immunofluorescence of SOX17 in mouse liver tissue with SOX17 antibody at 20 µg/ml.

SOX17 Antibody - Background

SOX17 is 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 cell fate (1,2). SOX17 is part of the SoxF subgroup which plays an important role in the differentiation of different cell types, including visceral and definitive endoderm and hematopoietic cell types (3,4). SOX17 is also essential for acquisition and maintenance of arterial identity (5).

SOX17 Antibody - References

Kanai Y, Kanai-Azuma M, Noce T, et al. Identification of two Sox17 messenger RNA isoforms, with and without the high mobility group box region, and their differential expression in mouse spermatogenesis. J. Cell Biol. 1996; 133:667-81.
Jiang T, Hou CC, She ZY, et al. The SOX gene family: function and regulation in testis determination and male fertility maintenance. Mol. Biol. Rep. 2013; 40:2187-94.
Francois M, Koopman P, and Beltrame M. SoxF genes: key players in the development of the cardiovascular system. Int. J. Biochem. Cell Biol. 2010; 42:445-8.
Kim I, Saunders TL, and Morrison SJ. Sox17 dependence distinguishes the transcriptional regulation of fetal from adult hematopoietic stem cells. Cell 2007; 130:470-83.