10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

(Mouse) Sox17 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5515

Product Information

Application	WB, IF, IHC
Primary Accession	Q61473
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44646
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	20671
Antigen Region	353-387
Other Names	Transcription factor SOX-17, Sox17, Sox-17
Dilution	WB~~1:2000 IF~~1:25 IHC~~1:100~500
Target/Specificity	This mouse Sox17 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 353-387 amino acids from the C-terminal region of mouse Sox17.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	(Mouse) Sox17 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Sox17
Synonyms	Sox-17
Function	Acts as a transcription regulator that binds target promoter DNA and bends the DNA (PubMed:19328208, PubMed:24153254, PubMed:8636240). Binds to the sequences 5'-AACAAT-'3 or 5'-AACAAAG-3' (PubMed:8636240). Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development (PubMed:11973269, PubMed:17655922,

	PubMed:24153254). Required for normal development of the definitive gut endoderm (PubMed:11973269). Required for normal looping of the embryonic heart tube. Plays an important role in embryonic and postnatal vascular development, including development of arteries (PubMed:24153254). Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX18 (PubMed:16895970). Required for the generation and maintenance of fetal hematopoietic stem cells, and for fetal hematopoiesis (PubMed:17655922). Probable transcriptional activator in the premeiotic germ cells.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:20802155, ECO:0000269|PubMed:24153254, ECO:0000269|PubMed:8636240}
Tissue Location	Detected in lung and testis (PubMed:8636240). Detected in endothelial cells around small and large arteries in newborns and adults, but is barely detectable in veins (at protein level) (PubMed:24153254).

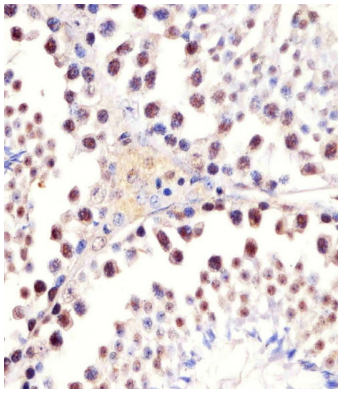
Background

Acts as 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 looping of the embryonic heart tube. Required for normal development of the definitive gut endoderm. Probable transcriptional activator in the premeiotic germ cells. Isoform 2 (T-SOX17) shows no DNA-binding activity.

References

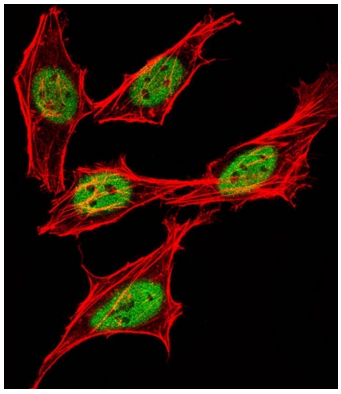
Kanai Y.,et al.J. Cell Biol. 133:667-681(1996).
Carninci P.,et al.Science 309:1559-1563(2005).
Layfield R.,et al.Submitted (FEB-1994) to the EMBL/GenBank/DDBJ databases.
Kanai-Azuma M.,et al.Development 129:2367-2379(2002).
Kim I.,et al.Cell 130:470-483(2007).

Images

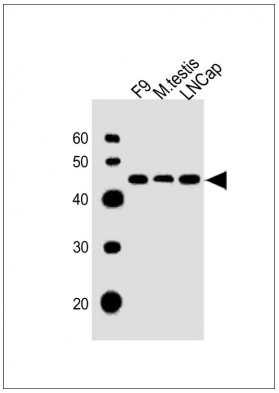


AW5515 staining (Mouse) Sox17 in mouse testis sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela (Human Cervical epithelial adenocarcinoma cell line) cells labeling Pdx1 with AW5515 at 1/25 dilution, followed by Dylight®



488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing nucleus staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).



All lanes : Anti-Sox17 Antibody (C-term) at 1:2000 dilution Lane 1: F9 whole cell lysates Lane 2: mouse testis lysates Lane 3: LNCap whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.