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(Mouse) Sox17 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20861c

Product Information

Application	WB, E
Primary Accession	Q61473
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51152
Calculated MW	44646

Additional Information

Gene ID	20671
Other Names	Transcription factor SOX-17, Sox17, Sox-17
Target/Specificity	This (Mouse) Sox17 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 376-409 amino acids from the C-terminal region of human (Mouse) Sox17.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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).

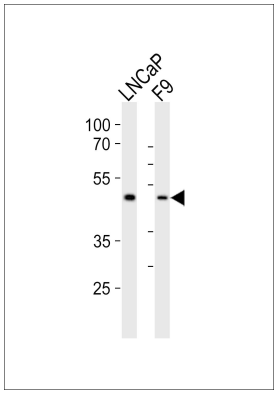
Background

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



Western blot analysis of lysates from LNCaP, mouse F9 cell line (from left to right), using Sox17 Antibody (C-term)(Cat. #AP20861c). AP20861c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.