

Sox17 Antibody

#13963

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Entrez-Gene ID #64321

UniProt ID #Q9H6I2

Store at -20°C

New 05/14

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W Endogenous	Species Cross-Reactivity* H	Molecular Wt. 55 kDa	Source Rabbit**
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Background: SRY-related high mobility group box (SOX) proteins comprise a large family of widely conserved transcription factors that play important roles in development. SOX proteins possess a high mobility group (HMG) motif that binds the DNA minor groove. SOX proteins do not directly mediate transcription, but require binding partners that regulate their ability to mediate transcription of target genes that control cell fate determination and development (reviewed in 1).

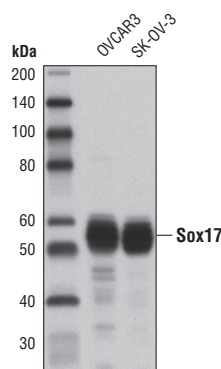
Transcription factor Sox17 is a Sox family protein with an established role in endoderm specification during development (2). In addition, Sox17 plays essential roles in the maintenance of the hematopoietic stem cell pool (3) and for vascular morphogenesis during development (4,5). Sox17 negatively regulates oligodendrocyte precursor differentiation by antagonizing β -catenin signaling (6). Mutation in the corresponding *Sox17* gene in humans is associated with a form of vesicoureteral reflux, a disorder characterized by congenital kidney and urinary tract defects (7).

Specificity/Sensitivity: Sox17 recognizes endogenous levels of total Sox17 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro276 of human Sox17 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Kamachi, Y. and Kondoh, H. (2013) *Development* 140, 4129-44.
- (2) Engert, S. et al. (2013) *Development* 140, 3128-38.
- (3) Clarke, R.L. et al. (2013) *Nat Cell Biol* 15, 502-10.
- (4) Lange, A.W. et al. (2014) *Dev Biol* 387, 109-20.
- (5) Choi, E. et al. (2012) *Stem Cells* 30, 2297-308.
- (6) Chew, L.J. et al. (2011) *J Neurosci* 31, 13921-35.
- (7) Gimelli, S. et al. (2010) *Hum Mutat* 31, 1352-9.



Western blot analysis of extracts from OVCAR3 and SK-OV-3 cells using Sox17 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.