

Sox17 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	55	Rabbit	#Q9H612	64321

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

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

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

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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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