

Sox1 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IF-F	M R	Endogenous	40	Rabbit	#O00570	6656

Product Usage Information**Application**

Western Blotting
Immunofluorescence (Frozen)

Dilution

1:1000
1:100 - 1:200

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

Sox1 Antibody detects endogenous levels of total Sox1 protein. It does not cross-react with endogenous levels of other Sox proteins, including Sox2 and Sox3.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of human Sox1. Antibodies are purified by Protein A and peptide affinity chromatography.

Background

Sox (Sry-related box) genes encode a family of transcription factors that play a myriad of roles in developmental processes (1). Sox1 and Sox2 are the earliest markers that identify neuroectodermal tissue, and these markers, together with Sox9 collectively mark neuronal stem cells (NSC's) that are present in neurogenically active areas of the mature rodent brain (2). Sox1 has been found in the walls of the lateral ventricles and the dentate gyrus, as well as in inactive areas such as the cerebellum where it marks a population of cells in the Purkinje layer known as the Bergmann glia (2). Sox1 is thought to maintain the cell cycle and promote self renewal in NSCs, but also functions in other cell types to promote differentiation (3).

Background References

1. Kiefer, J.C. (2007) *Dev Dyn* 236, 2356-66.
2. Alcock, J. et al. (2009) *Neurosci Lett* 450, 114-6.
3. Kan, L. et al. (2007) *Dev Biol* 310, 85-98.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-F:** Immunofluorescence (Frozen)

Cross-Reactivity Key

M: Mouse **R:** Rat

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