

Polyclonal Antibody to SOX (pan) - Aff - Purified

Catalog No.:	AP22235PU-N
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	SOX3 is a SOX (SRY-related HMG-box) protein that shows its homology with SRY, the testis-determining gene. The homology is restricted to the region of SRY that encodes a DNA-binding motif of the HMG-box class (the DNA-binding domain is called HMG for 'high mobility group'). The SOX gene is located on the X chromosome. This gene is highly conserved and shows 97.2% similarity to the protein encoded by the mouse SOX3 gene. Along with SOX1 and SOX2, SOX3 coexpresses in self-renewing progenitor cells and act to inhibit neuronal differentiation. Active repression of the SOX genes promotes neural progenitor cells to initiate differentiation prematurely. It helps in pituitary development.
Host:	Rabbit
Immunogen:	Amino acids 196-213 of human SOX3 AA Sequence: AVHMKEYPDYKYRPRRK Remarks: The amino acid sequence used as immunogen shares significant homology with SOX1, 2, 3, 7, 11, 12, 14, 15, 20, and 21.
Format:	State: Liquid Ig fraction Purification: Antigen affinity chromatography Buffer System: PBS containing 0.05% BSA and 0.05% sodium azide
Applications:	Western blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects SOX.
Species Reactivity:	Tested: Dog, Human, New World monkey, Mouse, Opossum, Rat, Xenopus Expected from sequence similarity: Zebrafish
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Stevanovic, M. et al. Hum. Molec. Genet. 2:2013-2018 (1993). 2. Bylund, M. et al. Nature Neurosci. 6:1162-1168 (2003). 3. Weiss, J. et al. Molec. Cell. Biol. 23:8084-8091 (2003). 4. Rizzoti, K. et al. Nature Genet. 36:247-255 (2004).

Pictures:

Western blot analysis of SOX protein in Raji cell lysate in the 1) absence and 2) presence of immunizing peptide using AP22235PU-N at 2 µg/ml. Goat anti-rabbit Ig HRP secondary antibody and ECL substrate solution were used for this test.

