



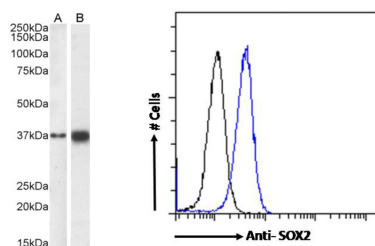
Goat antibody to SOX2: affinity purified

Catalogue No.:	G-1828-100
Description:	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). Ref: uniprot.org
Batch No.:	See product label.
Unit size:	100 ug
Antigen:	A synthetic peptide with sequence YNMMETELKPPGPQQ-C, corresponding to the N-terminus of SOX2 has been used as the immunogen.
Sequence:	YNMMETELKPPGPQQ-C
Antigen Location:	N-terminus
Antibody Type:	Polyclonal
Other Names:	SOX2; SRY (sex determining region Y)-box 2; ANOP3; MGC2413; SRY-related HMG-box gene 2; sex-determining region Y-box 2; transcription factor SOX2
Accession:	P48431 SOX2_HUMAN
Produced in:	Goat
Purity:	Affinity purified
Applications:	Western Blot (0.1-0.3 ug/mL) : A 37 kDa band is observed in nuclear lysates of cell line MCF7 and in lysates of human glioblastoma cell line U251. Immunocytochemistry (10 ug/mL): Strong expression of protein seen in the nuclei of U251 cells. Flow Cytometry (10 ug/mL): Analysis of MCF7 cells. Other applications not yet tested. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	This antibody is specific for SOX2 as demonstrated by western blotting.
Species Against:	Human
Antibody Against:	SOX2
Cross-reactivity:	Human. Other species not tested yet, but expected to cross-react with mouse, rat, dog and cow due to amino acid sequence similarity.
Form:	Lyophilized from a solution containing Tris-saline, 0.02% sodium azide, pH 7.3, with 0.5% bovine serum albumin.
Reconstitution:	Spin vial briefly before opening. Reconstitute in 100 uL sterile, ultrapure water to prepare 1 mg/mL solution. Centrifuge to remove any insoluble material.
Storage:	Store lyophilised antibody at 2-8C. After reconstitution divide into aliquots and store at -20C for long-term storage. Store at 2-8C short-term (up to 4 weeks) with an appropriate antibacterial agent. Avoid repetitive freeze/thaw cycles.
Expiry Date:	

FOR RESEARCH USE ONLY

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12 months after purchase if unopened.



Left: Western Blot analysis of MCF7 nuclear (A) and U251 (B) cell lysate (35 ug/lane). Primary antibody was used at 0.3 ug/mL. Right: Analysis of SOX2 expression in paraformaldehyde-fixed MCF7 cells (blue line), permeabilized with 0.5% Triton, by Flow Cytometry. Primary antibody incubation with 10 ug/mL goat anti-SOX2 antibody for 1 hr followed by addition of fluorescent-labelled anti-goat secondary antibody (1 ug/mL). IgG control: Normal goat IgG (black line).

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