Human SOX2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF2018

DESCRIPTION

Species Reactivity	Human
Specificity	Detects SOX2 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) SOX17 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human SOX2 Gly135-Met317 Accession # P48431
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

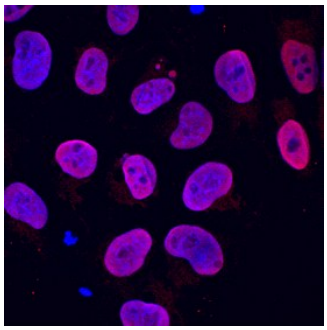
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human SOX2
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



SOX2 in Human iPSK3 cells. SOX2 was detected in immersion fixed human plasmid-derived induced pluripotent stem cells (iPSK3) using Goat Anti-Human SOX2 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF2018) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SOX2 belongs to the SOX (SRY-like HMG box) family of transcription factors with diverse roles in development. SOX2 functions in specifying the first three lineages present at implantation and in regulating proliferation and differentiation in the developing peripheral nervous system (1-6).

References:

1. Graham, V. *et al.* (2003) Neuron **39**:749.
2. Avilion, A.A. *et al.* (2003) Genes Dev. **17**:126.
3. Kishi, M. *et al.* (2000) Development **127**:791.
4. Yuan, H. *et al.* (1995) Genes Dev. **9**:2635.
5. Uwanogho, D. *et al.* (1995) Mech. Dev. **49**:23.
6. Stevanovic, M. (2003) Mol. Biol. Rep. **30**:127.

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