



# SOX2

# Data Sheet

<b>Catalog Number:</b>	GT15098	<b>Host:</b>	Goat
<b>Product Type:</b>	Affinity purified	<b>Species Reactivity:</b>	Human
<b>Immunogen Sequence:</b>	Recombinant human SOX2 (a.a. 135-317)	<b>Format:</b>	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose

**Applications:** **Immunohistochemistry:** 5-10 µg/mL

**Western Blot:** 0.1 – 0.2 µg/mL-Tested for Western blotting using recombinant protein.

**ELISA:** 0.5 - 1.0 µg/mL

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

**Storage:** Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

**References:** [Emma J. Stringer, Isabelle Duluc, Thoueiba Saandi, Irwin Davidson, Monika Bialecka, Toshiro Sato, Nick Barker, Hans Clevers, Catrin A. Pritchard, Doug J. Winton, Nicholas A. Wright, Jean-Noel Freund, Jacqueline Deschamps and Felix Beck. Cdx2 determines the fate of postnatal intestinal endoderm.](#) Published online before print December 21, 2011, doi: 10.1242/dev.070722

[O Leis, A Eguiara, E Lopez-Arribillaga, M J Alberdi, S Hernandez-Garcia, K Elorriaga, A Pandiella, R Rezola and A G Martin. Sox2 expression in breast tumours and activation in breast cancer stem cells.](#)

O Leis, A Eguiara, E Lopez-Arribillaga, M J Alberdi, S Hernandez-Garcia, K Elorriaga, A Pandiella, R Rezola and A G Martin

[Alvaro C. Laga, Qian Zhan, Carsten Weishaupt, Jie Ma, Markus H. Frank, George F. Murphy. SOX2 and nestin expression in human melanoma: an immunohistochemical and experimental study.](#)

Experimental Dermatology. Volume 20, Issue 4, pages 339–345, April 2011. DOI: 10.1111/j.1600-0625.2011.01247.x

[Marc R. Del Bigio. Cell proliferation in human ganglionic eminence and suppression after prematurity-associated haemorrhage Brain.](#) first published on Apr 7, 2011 as doi: doi:10.1093/brain/awr052

## Application Notes

### Immunocytochemistry

This antibody has been used at a concentration of 5 - 10 µg/mL to detect human SOX2. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 minutes, then blocked with PBS containing 0.1% Triton X-100, 1% BSA and 10% normal donkey serum at room temperature for 45 minutes. After blocking, sections were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red coupled anti-goat IgG antibody or another appropriate secondary antibody at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

### Western blot

This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human SOX2. The detection limit for recombinant human SOX2 is approximately 2 ng/lane under non-reducing and reducing conditions.

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