

## Product Data Sheet: SOX2

**Cat. No:** AB-83387

Conjugate: Unconjugated

Size: 100 ug
Clone: POLY
Concentration: 1mg/ml

Host: Rb Isotype: IgG

Immunogen: Recombinant protein of human SOX2

**Reactivity:** Hu,Ms,Rt

Western Blot: 1:500- 1:1000

Immunohistochemistry (Paraffin-embedded tissues): 1:50 - 1:100

**Applications:** Immunohistochemistry (Frozen Tissues) 1:100- 1:200

Immunocytochemsitry: 1:100-1:200 Immunofluorescence: 1:100- 1:200

**Molecular Weight:** 34kDa **Purification:** Aff. Pur.

Embryonic stem cells are derived from the inner cell mass of the blastocyst and

are unique in their pluripotent capacity and potential for self-renewal. Sox2 is one

of a set of transcription factors that are crucial for the maintenance of

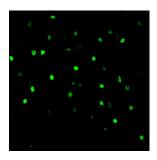
pluripotency (1). Sox2, Oct-4, and Nanog cooperate in this network (1-3), and siRNA knockdown of either Sox2 or Oct-4 results in loss of pluripotency (4,5). Chromatin immunoprecipitation experiments have shown that Sox2 and Oct-4

Chromatin immunoprecipitation experiments have shown that Sox2 and Oct-4 bind to thousands of gene regulatory sites, highlighting the importance of these transcription factors in early embryonic development (6,7). It has recently been shown that Sox2 is amplified in lung and esophageal squamous cell tumors (8).

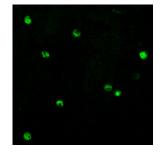
Form: Liquid

**Buffer:** PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

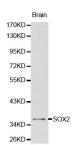
**Storage:** Store at -20°C. Avoid freeze / thaw cycles.



1. SOX2 Immunohistochemistry Frozen Tissues dilution 1:100 on cortex tissues of wild type mouse "enlargement 40x 03"



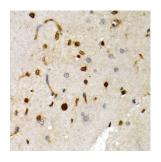
SOX2 Immunohistochemistry Frozen
 Tissues dilution: 1:100 on striated
tissues of wild type mouse "enlargement
 63x"



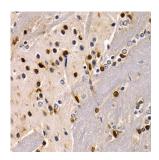
3. Western blot analysis of brain cell lysate using SOX2 antibody.



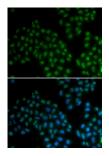
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4. Immunohistochemistry of paraffinembedded rat brain using SOX2 antibody at dilution of 1:100 (400x lens).



5. Immunohistochemistry of paraffinembedded mouse brain using SOX2 antibody at dilution of 1:100 (400x lens).



 Immunofluorescence analysis of MCF7 cell using SOX2 antibody. Blue: DAPI for nuclear staining.

## References

References for SOX2 Polyclonal Antibody (AB-83387)

Journal: Oncogene Application: WB, IF PMID:28394339

Title: NSPc1 promotes cancer stem cell self-renewal by repressing the synthesis of all-trans retinoic acid via targeting RDH16

in malignant glioma

Journal: Cell death and disease

Application: IP , IF: PMID: 29752436

Title: FOXM1 contributes to taxane resistance by regulating UHRF1-controlled cancer cell stemness

Journal: Cell death & disease

Application:WB IF: PMID:30631035

Title: Acidosis enhances the self-renewal and mitochondrial respiration of stem cell-like glioma cells through CYP24A1-mediated reduction of vitamin D.

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