

## SOX 1

Cat.No. 347 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> not tested yet <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> 1 : 200
Immunogen	Synthetic peptide corresponding to AA 9 to 25 from mouse Sox1 (UniProt Id: P53783)
Reactivity	Reacts with: mouse (P53783). Other species not tested yet.
Specificity	Specific for SOX 1.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

Sex determining region of Y chromosome (Sry)-related high mobility group **box1-3** or **SOX 1-3** proteins belong to the earliest transcription factors expressed in the developing CNS. Sox1, Sox2 and Sox3 constitute the B1-subgroup of the Sox gene family. They are expressed by most progenitor cells of the developing CNS and are generally downregulated by neural cells when they exit the cell cycle and differentiate.

### Selected General References

- Generation of organized germ layers from a single mouse embryonic stem cell.  
Poh YC, Chen J, Hong Y, Yi H, Zhang S, Chen J, Wu DC, Wang L, Jia Q, Singh R, Yao W, et al.  
Nature communications (2014) 5: 4000.
- How Sox2 maintains neural stem cell identity.  
Thiel G  
The Biochemical journal (2013) 450(3): e1-2.
- Interaction of Sox1, Sox2, Sox3 and Oct4 during primary neurogenesis.  
Archer TC, Jin J, Casey ES  
Developmental biology (2011) 350(2): 429-40.
- Role of Sox2 in the development of the mouse neocortex.  
Bani-Yaghoob M, Tremblay RG, Lei JX, Zhang D, Zurakowski B, Sandhu JK, Smith B, Ribecco-Lutkiewicz M, Kennedy J, Walker PR, Sikorska M, et al.  
Developmental biology (2006) 295(1): 52-66.
- Sox1 acts through multiple independent pathways to promote neurogenesis.  
Kan L, Israsena N, Zhang Z, Hu M, Zhao LR, Jalali A, Sahni V, Kessler JA  
Developmental biology (2004) 269(2): 580-94.
- Vertebrate neurogenesis is counteracted by Sox1-3 activity.  
Bylund M, Andersson E, Novitsch BG, Muhr J  
Nature neuroscience (2003) 6(11): 1162-8.
- SOX2 functions to maintain neural progenitor identity.  
Graham V, Khudyakov J, Ellis P, Pevny L  
Neuron (2003) 39(5): 749-65.
- Comparative expression of the mouse Sox1, Sox2 and Sox3 genes from pre-gastrulation to early somite stages.  
Wood HB, Episkopou V  
Mechanisms of development (1999) 86(1-2): 197-201.
- A role for SOX1 in neural determination.  
Pevny LH, Sockanathan S, Placzek M, Lovell-Badge R  
Development (Cambridge, England) (1998) 125(10): 1967-78.
- SOX3 is an X-linked gene related to SRY.  
Stevanović M, Lovell-Badge R, Collignon J, Goodfellow PN  
Human molecular genetics (1993) 2(12): 2013-8.