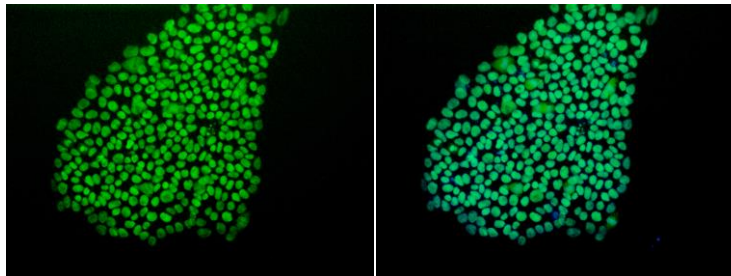


# Sox2 anti-Human/Mouse Antibody

Catalog Number: ST11001

Size	100 µL	
Concentration	0.5 mg/mL	
Species Reactivity	Human, Mouse	
Host	Rat Monoclonal	
Isotype	IgG2a, κ	
Immunogen	Human Sox2 Recombinant Protein	
Formulation	Phosphate-buffered solution containing 0.09% sodium azide, pH 7.2	
Storage and Stability	Aliquot and store at -20°C. Avoid repeated freeze-thaw cycles. Stable for 6 months from date of receipt when stored as directed.	
Applications Tested	Immunocytochemistry/Immunofluorescence (ICC/IF), Flow Cytometry (FC)	
Recommended Dilutions	Immunocytochemistry/Immunofluorescence	1:100
	Flow Cytometry	1:100
	It is recommended that the antibody be titrated for optimal performance for each application.	



ICC analysis on H1 human ES cells. Cells were stained with Sox2 Antibody at a 1:100 dilution followed by an Alexa 488-conjugated secondary antibody (green). Nuclei were counterstained with DAPI (blue).

Description	The Sox2 or SRY (sex determining region Y)-box 2 transcription factor contains a high motility group DNA-binding domain which functions to bind and open the DNA helix, facilitating the actions of other transcription factors. The protein is essential for maintaining the self-renewal and pluripotency capabilities of embryonic stem (ES) cells and therefore is commonly used to characterize stem cell populations. Sox2 is an important functional marker of neural precursor cells and plays a critical role in neuronal differentiation.
Alternative Names	SRY (sex determining region Y)-box 2
References	<p>Cavallaro, M., et al. (2008) Impaired generation of mature neurons by neural stem cells from hypomorphic Sox2 mutants. <i>Development</i> 135: 541-557. PMID: 18171687.</p> <p>Fong, H., et al. (2008) Regulation of self-renewal and pluripotency by Sox2 in human embryonic stem cells. <i>Stem Cells</i> 26: 1931-1938. PMID: 18388306.</p> <p>Graham, V., et al. (2003) SOX2 functions to maintain neural progenitor identity. <i>Neuron</i> 39: 749-765. PMID: 12948443.</p> <p>Takahashi, K., et al. (2007) Induction of pluripotent stem cells from adult human fibroblasts by defined factors. <i>Cell</i> 131: 861-872. PMID: 18035408.</p>

## PRODUCT WARRANTY

BioTime, Inc. and/or its subsidiaries warrants its products as set forth in the General Terms and Conditions of Sale found on ESI BIO's website at [www.esibio.com/termsandconditions](http://www.esibio.com/termsandconditions). ©2014 BioTime, Inc. All rights reserved. ESI BIO, ESI BIO logo and all other trademarks mentioned herein are the property of BioTime, Inc. and/or its subsidiaries or their respective owners. For support visit [www.esibio.com/support](http://www.esibio.com/support) or email [techsupport@esibio.com](mailto:techsupport@esibio.com)