

Human/Mouse SOX1 Antibody

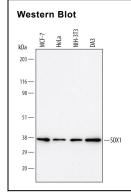
Monoclonal Mouse IgG₁ Clone # 340303 Catalog Number: MAB3369

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects endogenous human and mouse SOX1 in Western blots. In Western blots, this antibody shows approximately 10% cross-reactivity with rhSOX-2, and no cross-reactivity with rhSOX-3, -5, -6, -7, -9, -10, -11, -15, -17, or rmSOX-21.		
Source	Monoclonal Mouse IgG ₁ Clone # 340303		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human SOX1 Asn242-Gly379 (Leu276lle) Accession # O00570		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.		

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	See Below

DATA



Detection of Human/Mouse SOX1 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, HeLa human cervical epithelial carcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and DA3 mouse myeloma cell line. PVDF membrane was probed with 0.1 μg/mL of Human/Mouse SOX1 Monoclonal Antibody (Catalog # MAB3369) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SOX1 at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
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.	

SOX1 (SRY-related HMG box 1) is a 39 kDa transcription factor that belongs to the SRY family of HMG box proteins of which there are 30 members in vertebrates. Group B contains SOX1 along with SOX2, SOX3, SOX14 and SOX21; each of these factors share greater than 90% homology in their respective HMG box region. SOX1 maintains neural cells in an undifferentiated state and has been used as a marker for neural stem cells. Human and mouse SOX1 share 97% amino acid sequence identity.

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