

DESCRIPTION

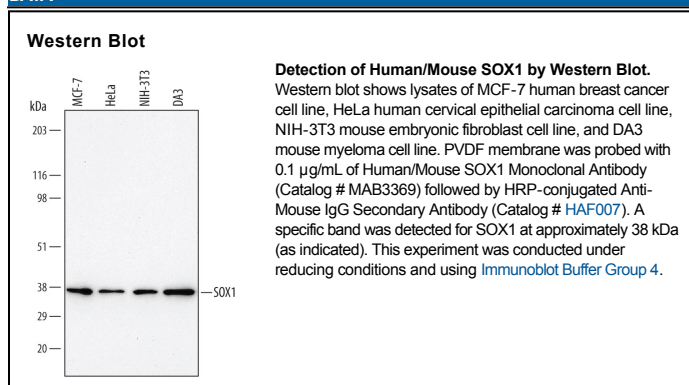
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse SOX1 in Western blots. In Western blots, this antibody shows approximately 10% cross-reactivity with rhSOX-2, and no cross-reactivity with rhSOX-3, -5, -6, -7, -9, -10, -11, -15, -17, or rmSOX-21.
Source	Monoclonal Mouse IgG ₁ Clone # 340303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SOX1 Asn242-Gly379 (Leu276Ile) 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.

APPLICATIONS

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



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. <ul style="list-style-type: none"> 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.

BACKGROUND

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.