

Human SOX11 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1106960 Catalog Number: MAB11734

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects recombinant human SOX11 protein in Direct ELISA.		
Source	Monoclonal Mouse IgG _{2B} Clone # 1106960		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli - derived recombinant human SOX-11 Met1-Pro173 Accession # P35716		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.		

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	2 μg/mL	SH-SY5Y human neuroblastoma cell line	
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of human glioblastoma and mantle cell lymphoma	

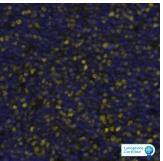
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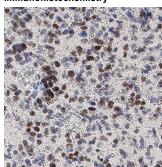
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Multiplex Immunofluorescence



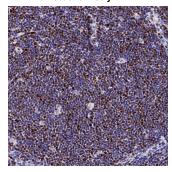
SOX11 in Human Mantle Cell I vmphoma via seglF™ staining on COMET™ SOX11 was detected in immersion fixed paraffin-embedded sections of human Mantle Cell Lymphoma using Mouse Anti-Human SOX11, Monoclonal Antibody (Catalog # MAB11734) at 25ug/mL at 37 Celsius for 8 minutes. Before incubation with the primary antibody, tissue underwent an allin-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 Celsius for 8 minutes. (Yellow: Lunaphore Catalog # DR647MS) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the nucleus Protocol available in COMET™ Panel Builder.

Immunohistochemistry



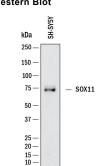
Detection of SOX11 in Human Glioblastoma, SOX11 was detected in immersion fixed paraffin-embedded sections of human glioblastoma using Mouse Anti-Human SOX11 Monoclonal Antibody (Catalog # MAB11734) at 5 µg/ml for 1 hour at room temperature followed by incubation with the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCvte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Immunohistochemistry



Detection of SOX11 in human Mantle Cell Lymphoma SOX11 was detected in immersion fixed paraffin-embedded sections of human mantle cell lymphoma using Mouse Anti-Human SOX11 Monoclonal Antibody (Catalog # MAB11734) at 15 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Western Blot



Detection of Human SOX11 by Western Blot. Western Blot shows lysates of SH-SY5Y human neuroblastoma cell line. PVDF membrane was probed with 2 μg/ml of Mouse Anti-Human SOX11 Monoclonal Antibody (Catalog # MAB11734) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SOX11 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping

Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

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.

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BACKGROUND

Human SOX11 (SRY box-related gene 11) is a 60-72 kDa (46.6 kDa predicted), group C member of the SOX family of transcription factors. It is 441 amino acids (aa) in length, and contains one HMG box (aa 49-117), two poly-Gly regions (aa 144-214), one poly-Asp domain (aa 223-233) and one poly-Ser region. The HMG box determines DNA and transcriptional coactivator binding, the poly-Ser region lies in a potent transactivating region, and the poly-Asp domain autoinhibits/regulates activities of the other two regions. SOX11 appears early in development in multiple tissues, and impacts neuron, oligodendrocyte and cartilage formation. Human SOX11 is 94% aa identical to mouse SOX11 over aa 1-173. Mouse SOX11, however, is absent a 12 aa poly-Gly sequence that is present in human SOX11 between aa 145-156. Additional band correspondent to the lower molecular weight may represent SOX11 without posttranslational modifications or human SOX4, over aa 38-123 human SOX11 shares 100% aa identity with human SOX4. (1)

References:

1. Dictor, M. et al. (2009) Haematologica 94:1563.

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