

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SOX9 in direct ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 326820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SOX9 Met1-Lys151 Accession # P48436
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

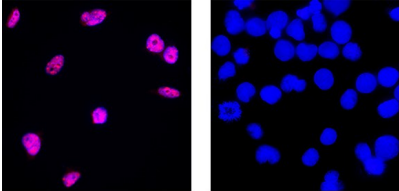
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	Immersion fixed U-251 MG human glioblastoma cells (positive) and absent in HEL 92.1.7 human erythroleukemic cells (negative)

DATA

Immunocytochemistry



Detection of SOX9 in U-251 MG cells (positive) and HEL 92.1.7 cells (negative). SOX9 was detected in immersion fixed U-251 MG human glioblastoma cells (positive) and absent in HEL 92.1.7 human erythroleukemic cells (negative) using Mouse Anti-Human SOX9 Monoclonal Antibody (Catalog # MAB3075) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

U-251MG (Positive) cells HEL 92.1.7 (Negative) cells

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

SOX9 belongs to the SOX (SRY-like HMG box) family of transcription factors with diverse roles in development. SOX9 is expressed in mesenchymal progenitors that give rise to chondrocytes and osteoblasts. It is also expressed in the central nervous system, neural crest, intestine, pancreas, and testis. Mutations in SOX9 are associated with defects in sex determination, cartilage and bone development, as well as abnormalities of the heart, kidneys, brain, gut, and pancreas.