

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	In Western blots, approximately 5% cross-reactivity with recombinant human (rh) SOX10 is observed and less than 2% cross-reactivity with rhSOX2, rhSOX3, rhSOX7, rhSOX14, rhSOX17, and rhSOX21 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human SOX9 Met1-Lys151 Accession # P48436
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

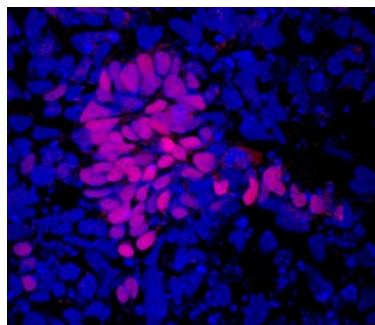
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human SOX9
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

## DATA

### Immunocytochemistry



**SOX9 in BGO1V Human Embryonic Stem Cells.** SOX9 was detected in immersion fixed BGO1V human embryonic stem cells differentiated to early proximal lung progenitors using Goat Anti-Human SOX9 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF3075) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.