

**DESCRIPTION**

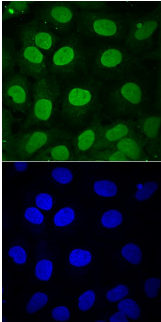
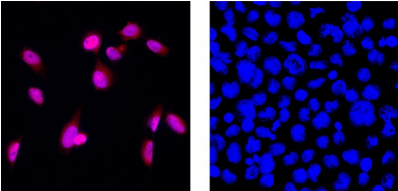
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SOX3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) SOX2, rhSOX7, rhSOX10, and rhSOX17 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human SOX3 Met1-Leu230 Accession # P41225
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human SOX3
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

**DATA**

<p><b>Immunocytochemistry</b></p>  <p><b>SOX3 in Ntera-2 Human Cell Line.</b> SOX3 was detected in immersion fixed Ntera-2 human testicular embryonic carcinoma cell line differentiation with retinoic acid using Goat Anti-Human SOX3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2569) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Goat IgG Secondary Antibody (green, upper panel; Catalog # NL003) and counterstained with DAPI (blue, lower panel). View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>Detection of SOX3 in U-251 MG cells (positive) and HDLM-2 cells (negative).</b> SOX3 was detected in immersion fixed U-251 MG human glioblastoma cells (positive) and absent in HDLM-2 human Hodgkin's lymphoma cells (negative) using Goat Anti-Human SOX3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2569) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cell nuclei. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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**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>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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**

SOX3 belongs to the SOX family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The SOX3 gene is localized on the X chromosome and is expressed in the brain and gonads. It has been suggested that SOX3 plays a role in brain formation and function. Human and mouse SOX3 share 92% amino acid sequence identity.