

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SOX15 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human (rh) SOX3, rhSOX14, and rhSOX21 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human SOX15 Met1-Leu233 Accession # O60248
<b>Formulation</b>	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.

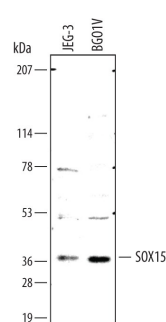
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

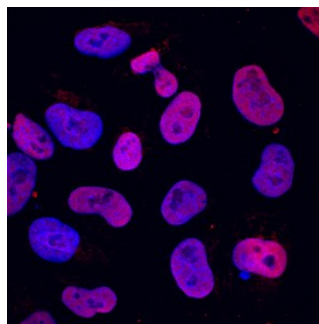
## DATA

### Western Blot



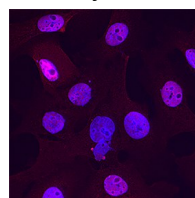
**Detection of Human SOX15 by Western Blot.** Western blot shows lysates of JEG-3 human epithelial choriocarcinoma cell line and BG01V human embryonic stem cells. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human SOX15 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4070) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SOX15 at approximately 36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunocytochemistry

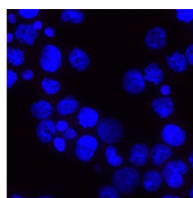


**SOX15 in Human iPSK3 cells.** SOX15 was detected in immersion fixed human plasmid-derived induced pluripotent stem cells (iPSK3) using Sheep Anti-Human SOX15 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4070) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

### Immunocytochemistry



A431 cells



HUVEC

**SOX15 in A431 Human Cell Line.** SOX15 was detected in immersion fixed A431 human epithelial carcinoma cell line (positive staining) and HUVEC human umbilical vein endothelial cells (negative staining) using Sheep Anti-Human SOX15 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4070) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to nuclei. Staining was performed using our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## 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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<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

SOX15 (also known as SOX20) is a nuclear, 25 kDa transcriptional repressor that belongs to group G of the SOX gene family. Human SOX15 is 233 amino acids (aa) in length and contains a 63 aa DNA-binding HMG-box (amino acids 48-110). Although the C-terminus (aa 126-233) does not bind DNA, it is required for SOX15 repressive activity. It may accomplish this by interacting with  $\beta$ -catenin. SOX15 is expressed in myoblasts and regulates skeletal muscle regeneration and differentiation. Human SOX15 shares 75% aa sequence identity with mouse SOX15.