

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TBX18 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TBX2, 3, 5, 6, 20, or rhT-bet is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 635305
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TBX18 Ala384-Ser504 Accession # O95935
<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 as a 0.2 µm filtered solution in PBS.

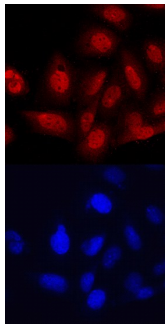
**APPLICATIONS**

**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>Immunocytochemistry</b>	8-25 µg/mL	See Below

**DATA**

**Immunocytochemistry**



**TBX18 in Saos-2 Human Cell Line.** TBX18 was detected in immersion fixed Saos-2 human osteosarcoma cell line using Mouse Anti-Human TBX18 Monoclonal Antibody (Catalog # MAB63371) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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>	<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**

TBX18 is a 607 amino acid, 65 kDa (predicted) protein that is a member of the T-box family of developmentally expressed transcription factors. It is developmentally expressed in the anterior portion of the head, somites and limb buds. It is expressed on pluripotent progenitors in the developing epicardium where it is required for formation of the cardiac AV node, and can also contribute to fibroblast and smooth muscle formation. Within the region used as an immunogen, human TBX18 shares 93% amino acid identity with mouse and rat TBX18.