

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TBX20 in ELISA.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 668710
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TBX20 Met1-Leu116 Accession # Q9UMR3
<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.

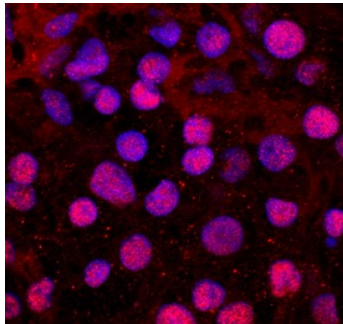
**APPLICATIONS**

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

**DATA**

**Immunocytochemistry**



**TBX20 in BG01V Human Embryonic Stem Cells.** TBX20 was detected in immersion fixed BG01V human embryonic stem cells differentiated to cardiac cells using Mouse Anti-Human TBX20 Monoclonal Antibody (Catalog # MAB8124) at 10 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 nuclei. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 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>	<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**

TBX20 (T-box transcription factor 20) is a transcriptional activator and repressor that is essential for cardiac development and to adult cardiomyocyte function. Mutation in humans or mice can result in congenital heart disease, including septation, chamber, and valvulogenesis defects and dilated cardiomyopathy. These include atrial septal defect 4 (ASD4). The 447 amino acid (aa) human TBX20 contains a T-box DNA binding domain at aa 109-228. Between aa 1-116, human TBX20 shares 96% aa sequence identity with mouse TBX20. One isoform that is truncated at aa 297 has been described.