

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Brachyury in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1161B
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Brachyury Met230-Met435 Accession # O15178
<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.

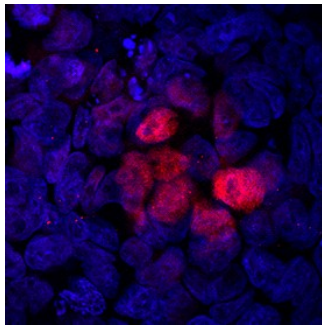
## APPLICATIONS

**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



**Brachyury in BG01V Human Embryonic Stem Cells.** Brachyury was detected in immersion fixed BG01V human embryonic stem cells differentiated into mesoderm using Rabbit Anti-Human Brachyury Monoclonal Antibody (Catalog # MAB20851) at a 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 567-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) 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

Brachyury is a 435 aa T-box family transcription factor. Human Brachyury shares 90% and 91% aa identity with mouse and rat Brachyury, respectively. It is required in the early determination and differentiation of mesoderm. Additionally, expression of Brachyury has been shown to be upregulated in a number of cancers, and in some cases, correlates with increased aggressiveness.