**DESCRIPTION**

**Specificity**
Dectects TGF-β2 from multiple species in ELISAs and Western blots. In ELISAs, no cross-reactivity or interference with recombinant human (rh) TGF-α, recombinant porcine TGF-β1, rhTGF-β1, recombinant canine TGF-β3, recombinant amphibian TGF-β5, rhTGF-β RII, or rhTGF-β RII is observed.

**Source**
Monoclonal Mouse IgG2B Clone # 8607

**Purification**
Protein A or G purified from ascites

**Immunogen**
Porcine TGF-β1.2

**Formulation**
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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>8-25 μg/mL</td>
</tr>
<tr>
<td>Human TGF-β2 Sandwich Immunoassay</td>
<td></td>
</tr>
<tr>
<td>ELISA Capture</td>
<td>2-8 μg/mL</td>
</tr>
<tr>
<td>ELISA Detection</td>
<td>0.1-0.4 μg/mL</td>
</tr>
<tr>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

**DATA**

**Immunohistochemistry**

TGF-β2 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Mouse Anti-TGF-β2 Monoclonal Antibody (Catalog # MAB612) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**PREPARATION AND STORAGE**

**Reconstitution**
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**
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.

**Stability & Storage**
- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
  - 12 months from date of receipt, -20 to -70 °C as supplied.
  - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
  - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**
The active form of TGF-β2 is a disulfide-linked homodimer which is generated by activation of the latent TGF-β2 complex. TGF-βs are multifunctional cytokines that activate or repress multiple genes in a wide variety of cell types. Depending on the cell context, TGF-β can control many cellular processes including growth, morphogenesis, and apoptosis.

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