

**DESCRIPTION**

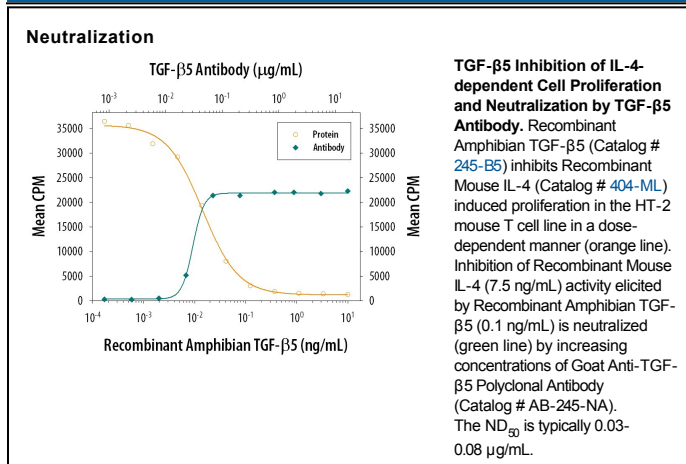
<b>Specificity</b>	Detects TGF-β5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with the other TGF-β variants is observed. Neutralizes the biological activity of recombinant amphibian TGF-β5, but not TGF-β1, porcine TGF-β1.2, TGF-β2, or TGF-β3.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Protein A or G purified
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant amphibian TGF-β5 Gly271-Ser382 Accession # P16176
<b>Endotoxin Level</b>	<0.10 EU per 1 μg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

**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	Recombinant Amphibian TGF-β5 (Catalog # 245-B5)
<b>Neutralization</b>	Measured by its ability to neutralize TGF-β5 inhibition of IL-4-dependent proliferation in the HT-2 mouse T cell line. Tsang, M. <i>et al.</i> (1995) Cytokine 7:389. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.03-0.08 μg/mL in the presence of 0.1 ng/mL Recombinant Amphibian TGF-β5 and 7.5 ng/mL Recombinant Mouse IL-4.	

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 1 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.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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**

TGF-β5 is a member of the TGF-β family of growth factors. These proteins are stable, multifunctional factors with a wide variety of effects on the growth and differentiation of virtually all cell types. These actions on growth or differentiation may be stimulatory or inhibitory, depending on the cell type, growth conditions, state of differentiation and on the presence of other growth factors. The full range of *in vitro* biological activities of TGF-β5 has not yet been explored. However, TGF-β1, TGF-β2, TGF-β3, and TGF-β5 have been found to be largely interchangeable in an inhibitory bioassay, and it is anticipated that TGF-β5 will show a spectrum of activities similar to the other TGF-β family members. The *in vivo* role of TGF-β5 is also not known, but the presence of this factor in *Xenopus* embryos, tadpole cells, and adult tissues suggests a role in the mediation of differentiation and development. Similar roles have been suggested for other members of the TGF-β family. To date, the production of TGF-β5 has only been demonstrated in *Xenopus*.