

## DESCRIPTION

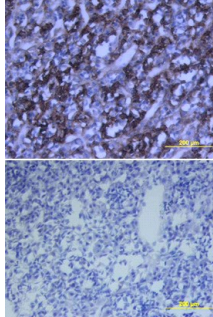
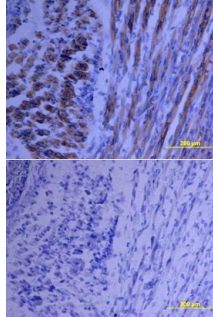
<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects rat Growth Hormone in Western blots. In this format, approximately 10% cross-reactivity with recombinant human Growth Hormone is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant rat Growth Hormone Leu27-Phe216 Accession # P01244
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. 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>	0.1 µg/mL	Recombinant Rat Growth Hormone
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA

<b>Immunohistochemistry</b>	<b>Immunohistochemistry</b>
 <p><b>Growth Hormone in Rat Pituitary.</b> Growth Hormone was detected in perfusion fixed frozen sections of rat pituitary using Goat Anti-Rat Growth Hormone Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF1566) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>	 <p><b>Growth Hormone in Mouse Embryo.</b> Growth Hormone was detected in immersion fixed frozen sections of mouse embryo using Goat Anti-Rat Growth Hormone Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF1566) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

Growth Hormone, also named somatotropin, belongs to the somatotropin/prolactin superfamily. It is synthesized in the anterior pituitary gland. Growth Hormone regulates body growth by stimulating the secretion of IGF-I by liver and other tissues.