

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Growth Hormone in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Growth Hormone is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 222517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat Growth Hormone Phe27-Phe216 Accession # P01244
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Rat Growth Hormone
Immunohistochemistry	8-25 µg/mL	Perfusion fixed frozen sections of rat pituitary

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 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

Growth Hormone, also known as somatotropin, is synthesized primarily in the anterior pituitary. It is a pleiotropic cytokine that exerts its biological actions by binding to the transmembrane GH receptor which is present in many cell types.