

## Growth Hormone Mouse Monoclonal Antibody Product Datasheet

Catalog# BX50213

Clone# BPM6190

**Predicted Molecular Wt:** 25kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P01241

### Background:

Growth hormone (GH), somatotropin, is the primary hormone responsible for regulating overall body growth and is also important in organic metabolism. It is synthesized by acidophilic or somatotropic cells of the anterior pituitary gland.

GH stimulates growth indirectly by promoting the liver's production of somatomedins, which act directly on bone and soft tissue to cause growth. GH exerts direct metabolic effects on the liver, adipose tissue and muscle. In general, growth hormone enhances protein synthesis, conserves carbohydrates and uses up fat stores.

Human Growth Hormone (HGH) is recommended for the detection of specific antigens of interest in normal and neoplastic tissues, as an adjunct to conventional histopathology using non-immunologic histochemical stains.

### Subcellular location:

Cytoplasm

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide corresponding to Human Growth Hormone protein was used as an immunogen. The exact sequence is proprietary.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-25°C to -18°C

### Storage instructions:

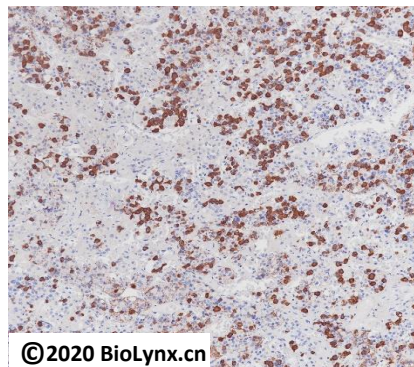
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:


IHC-P: 1:100-1:200

### Background References:

1. Sun H et al. Nat Commun 7:10339 (2016).
2. Kunert R et al. Appl Microbiol Biotechnol 84:693-9 (2009).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of pituitary gland labelling Growth Hormone with BPM6184. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.