



## Polyclonal Antibody to Human Growth Hormone (hGH)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to human hGH

PRODUCT# IMI23961E (Ready-To-Use)

PRODUCT# IMI23952E (Concentrate)

#### Antibody Formats Supplied

7 ml of anti hGH, Ready-To-Use

0.2 ml of anti hGH, Concentrate

**SOURCE:** Rabbit

**IMMUNOGEN:** Purified human hGH

#### **REACTIVITY**

Human growth hormone antibody is often employed for the purpose of immunolocalization of growth hormone in the cells of the anterior pituitary gland. The demonstration of growth hormone in pituitary gland cells assists in distinguishing neoplasms of the pituitary from other co-produced hormones. This antibody displays minimum cross reactivity (less than 1%) with other pituitary hormones such as LH, HPL, TSH, FSH and prolactin. This antibody reacts with routinely fixed, paraffin embedded and frozen sections. It is also compatible with formalin fixed tissues.

**POSITIVE CONTROL TISSUE:** Anterior pituitary gland

**STAINING PATTERN:** Cytoplasmic

#### **PRODUCT FORMATS, DILUTIONS and INCUBATIONS**

Affinity purified hGH antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1% sodium azide.

7ml pre-diluted, Ready-to-Use, (do not dilute). Incubate for 10-30 minutes for paraffin sections.

0.2 ml of Concentrate: The suggested starting dilution for 30-minute incubation is 1:50 for paraffin sections and 1:100 for frozen sections. The ultimate working dilution and incubation time must be determined by the end user for the incubation time and the secondary reagents employed.

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q -detection system. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

#### **SPECIAL USAGE GUIDANCE**

No pre-treatment is necessary, however, for best staining results, the use of a Innovex signal-Enhancing Wash buffer is highly recommended. The use of Innovex signal-Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps greatly enhances staining signals for antigenically weak tissues or for overfixed tissues. Its use further eliminates the need for such pre-treatments as enzyme Pre-digestion, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.

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## **APPLICATIONS**

This antibody is intended for use in immunolocalization of hGH by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections of human or animal tissues for the purpose of qualitative or quantitative localization of hGH. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human tissue has been substantiated, other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR IN VITRO RESEARCH USE ONLY***