### Anti-Human Growth Hormone Antibody [PSH12-82] - BSA and Azide free (Detector)

## **HA725107**

Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human

Applications: ELISA(Det)

Clone number: PSH12-82

**Description:** Growth hormone 1, also known as pituitary growth hormone or simply as growth hormone

(GH) somatotropin, is a protein that in humans is encoded by the GH1 gene. The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones that play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation, an arrangement thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone

deficiency and short stature.

Immunogen: Recombinant protein within Human Growth Hormone aa 27-217 (HA211027).

**Positive control:** Recombinant Human Growth Hormone protein (HA211027).

Subcellular location: Secreted.

Database links: SwissProt: P01241 Human

**Recommended Dilutions:** 

ELISA(Det)

Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit

monoclonal [PSH12-81] to Human Growth Hormone antibody (Capture) (HA725106) and Recombinant Human Growth Hormone protein (HA211027) as the standard. The reference

range value is 7.8 -1,000 pg/mL.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

# Hangzhou Huaan Biotechnology Co., Ltd.

Technical:0086-571-89986345

Service mail:support@huabio.cn



### **Images**

Standard curve of Human Growth Hormone matched pair antibodie

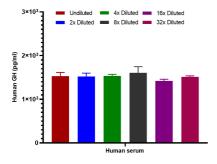
**Fig1:** Sandwich ELISA analysis of Human Growth Hormone matched pair antibodies

Capture: HA725106, Human Growth Hormone Rabbit mAb

[PSH12-81]

Detector: HA725107, Human Growth Hormone Rabbit mAb

[PSH12-82]



**Fig2:** Interpolated concentrations of native Growth Hormone in human serum samples.

Capture: HA725106, Human Growth Hormone Rabbit mAb [PSH12-81]

Detector: HA725107, Human Growth Hormone Rabbit mAb [PSH12-82]

Interpolated concentration of native Growth Hormone was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean Growth Hormone concentration was determined to be 1522 pg/mL in Human serum.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### **Background References**

- 1. Hjelholt A et al. Growth Hormone and Obesity. Endocrinol Metab Clin North Am. 2020 Jun
- 2. Miller BS et al. Long-Acting Growth Hormone Preparations Current Status and Future Considerations. J Clin Endocrinol Metab. 2020 Jun



Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail:support@huabio.cn

