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Antibody to Human Growth Hormone
MOUSE MONOCLONAL

Catalog Number: AB-457
Quantity: 5 micrograms, 20 micrograms, 100 micrograms
Format: 1 mg/ml containing PBS, pH -7.4, and 0.1% sodium azide
Host: Mouse
Isotype: IgG2b
Clone: PG3H5AT
Immunogen: recombinant Growth Hormone

Background:

Growth hormone (GH) is a member of the somatotropin/prolactin family of hormones which 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 which is 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.

Specificity and Preparation:

Anti-human growth hormone (GH) is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with recombinant growth hormone. It was purified from mouse ascitic fluids by protein-G affinity chromatography.

Usage and Storage:

Reported to be effective for ELISA and immunoblotting (western blot, 1:500-1:1000, starting dilution 1:1,000). For each application, the reagent should be titrated to obtain optimal results. Store at 4°C for one month or at -20°C for 2 years. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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