

Anti-Growth Hormone/GH1 Antibody Picoband®

Catalog Number: RP1023

About GH1

Growth Hormone (GH) is mapped to 17q22-q24. Growth hormone (GH) is synthesized by acidophilic or somatotrophic cells of the anterior pituitary gland. Human growth hormone has a molecular mass of 22,005 and contains 191 amino acid residues with 2 disulfide bridges. It binds two receptor molecules and thereby induces signal transduction through receptor dimerization. At high concentrations, GH acts as an antagonist because of a large difference in affinities at the respective binding sites.

Overview

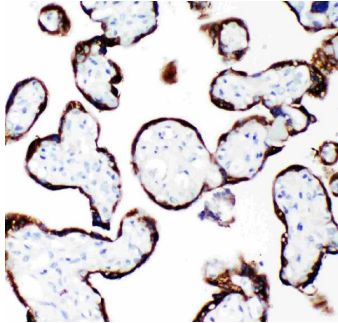
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| Product Name | Anti-Growth Hormone/GH1 Antibody Picoband® |
| Reactive Species | Human |
| Description | Boster Bio Anti-Growth Hormone/GH1 Antibody catalog # RP1023. Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | ELISA, IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P01241 |

Technical Details

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| Immunogen | E. coli-derived human GH recombinant protein (Position: F27-F217). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |

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|---------------------|---|
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | ELISA, 0.1-0.5ug/ml, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Western blot, 0.1-0.5ug/ml, Human |

Anti-Growth Hormone/GH1 Antibody Picoband® (RP1023) Images



Anti-human Growth Hormone antibody, RP1023, IHC(P)
IHC(P): Human Placenta Tissue

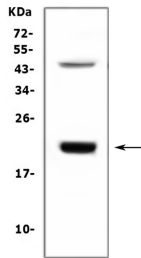


Figure 1. Western blot analysis of GH1 using anti-GH1 antibody (RP1023).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GH1 antigen affinity purified polyclonal antibody (Catalog # RP1023) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GH1 at approximately 22KD. The expected band size for GH1 is at 25KD.

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